<110>   Cheikh, Nordine
             Liu, Jingdong
             Peschke, Virginia M.
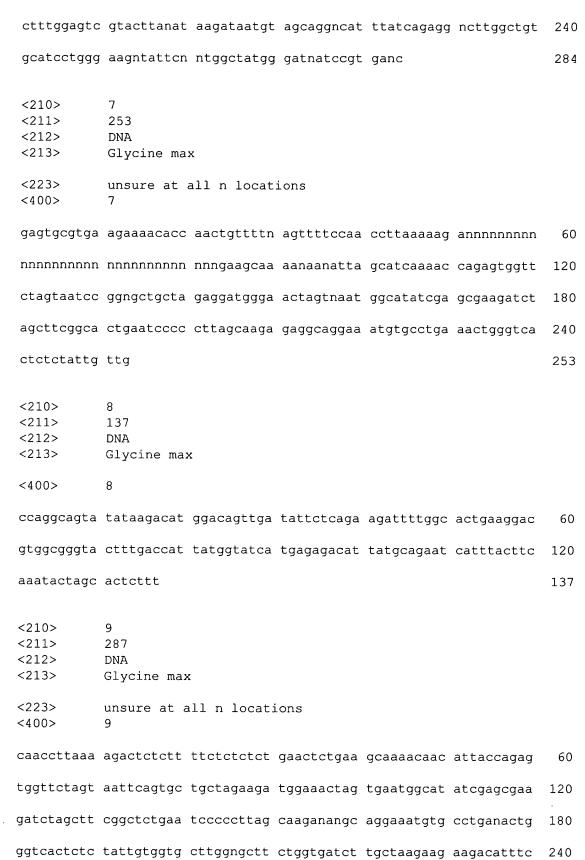
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cagattattt tatttggcat tgcctccatc agtctaccca tcagtatgcg agatgataag   180

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gaatctccat tatgccg   137

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caatatcttc tttcaaactt tcaggaaaag caaatatata gaattganca tctactagga   180

aggaatcnca gtnaaaatcc tncaggttta agggtttcaa annnagnttt tgagccacct   240

tngagnngna cntnnnnnga nna                                           263


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aggntgggaa ctagtgaatg gcatatcgag cgaagatcta gcttcggcac tgaatncccc   180

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cttntgggga tcttgctaa                                                259


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ggaaggaatc ncattgnaaa tcttacagtt tnaaggtttt caaatctagt ttttgagcca   180
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ctagtaatcc ggngctgcta gaggatggga actagtnaat ggcatatcga gcgaagatct   180

agcttcggca ctgaatcccc cttagcaaga gaggcaggaa atgtgcctga aactgggtca   240

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aaatactagc actcttt                                                   137


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gatctagctt cggctctgaa tcccccttag caaganangc aggaaatgtg cctganactg   180

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gaatccccct agcaagagag gcaggaaatg tgcctgaaac tgggtcactc tctattgtgg   180

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acctgngnta c                                                        251


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gcttctgggg atc                                                      193


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<212>      DNA
<213>      Zea mays

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gaatcctgag ctcgccaatg gcgcagccat ttgaggaatt ggttggtatg agcagggatg   180

ttttctgctt tgggtgattt ctctctgtgg gttatctttc cttttactat tgttatcttt   240
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agaacattgt gtagcttc                                                   318


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gcaccgtcca cttccctgtc cctttcatcc cggtcttgtc aaggaccttg tccaccaggt    180

agccatcgcc atgctcgtcc ttgatgccaa agatgtcggc cgtgatctcn atcaagaagc    240

tcaggagctc gcccttgttc cactcggaga acacctggtg cagctcactg ttggtgagct    300

taccgaccga cttgagaacg tcgtatgcct nggaaatcaa ctgcatatcg gcatactcga    360

ttccgttggt gaaccatttt nacaaaantt ncccgatnca nctttngcca agtacgtnaa    420

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agaagccacg ggtggtgatc atgctcgtca aggccggcgc gccagttgac cagaccatcg    240

cgacgctcgc agctcacttg gagcagggcg actgcatcat cgatgggggg aacgagtggt    300

acgagaacac ggagaggagg gagaaggcca tggaggagcg cggcctnctg tatcttggca    360

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tcggtcttgc tggccttgcg gtcatggggc agaaccttgc cctcaacatt gcagagaaag   180

ggttccccat ctctgtgtac aacaggacaa ccttcaaggt ggacgagacc gtgcagcgtg   240

ccaaggcaga aggaaacctt cccgtctacg gcttccatga ccccgcgtcc tttgtgaagt   300

ccattcagaa gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcca gttgaccaga   360

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agtggtacga gaacacggag aggagggag   449

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gcagcgcgcc agctccatag tgtaggagga gatggcgctc acaagaatcg gtcttgctgg   180

ccttgcggtc atggggcaga accttgccct caacattgca gagaaagggt tccccatctc   240

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cagaaccttg ccctcaacat tgcagagaaa gggttcccca tctctgtgta caacaggaca   180

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ctcgtcaagg ccggcgcgcc agttgaccag accatcgcga cgctcgcagc tcacttggag   360

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<212>   DNA
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tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg cagcgtgcca aggcagaagg   240

aaaccttccc gtctacggct tccatgaccc cgcgtccttt gtgaagtcca ttcagaagcc   300

acgggtggtg atcatgctcg tcaaggccgg cgcgccagtt gaccagacca tcgcgacgct   360

7

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ggcagcgcgc cagctccata ggaggagatg gcgctcacaa gaatcggtct tgctggcctt      180

gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc catctctgtg      240

tacaacagga caacctccaa ggtggacgag accgtgcagc gtgccaaggc agaaggaaac      300

cttcccgtct acggcttcca tgaccccgcg tcctttgtga agtccattca gaagccacgg      360

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gctcacttgg agc                                                          433


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ttgctggcct tgcggncatg gggcagaacc ttgccctnaa cattgcagag aaagggnnan      120

ccatatgtgt gnacaacagg acaacctgca aggtngacna gaccgtncag ngngncnagg      180

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<211>     271
<212>     DNA
<213>     Glycine max

<223>     unsure at all n locations
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8

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caagaccctc tcagcacact tnnccaaggg tgattgcatc attgatggtg gcaatgagtg    180

gtatgagaac actgagagaa gagagaaagc gatgtccgaa ttgggtcttc tctaccttgn    240

ggatgggagt ttcaggtggt gaagaaggtg c                                   271


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ccaggttatt tcagggatag gattttgttc ctgactgtat tgcagtcacc gaatatggag    180

caactaagga cggatatttg ggggtatatt atgggcaacg agaggttgga tgcgaattac    240


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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
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tgatgcctgg tggtcgttga ggcttcaaat acatagaaga tattcttctc aaggtgcagc    120

tcaagtcctg acagtggtct tgcgtactat atnnnaaggt gnctggtaat ttgtcnatga    180

tcacatggac gattgtgnat nantatgcaa ggcatattnt gagcatagca gtgcaataga    240

tc                                                                   242


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<212>      DNA
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gatacaaaat tgtccagctc atggtgcctt tttaattttc acattttgat aagatttcct   180

tcagcgtcat ggatacatgt tatgttacac caggagttga aatttttaca tttattgtta   240

acttgttgag tttaatgttg atc   263

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<211>   253
<212>   DNA
<213>   Glycine max

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cttgcgtgac ttatcttggt aaaggtgggt ctggtaattt tgtgagagag attcaacaat   120

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cgaagttccc gga   253

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<212>   DNA
<213>   Glycine max

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tgcttgaaaa gggcttccca attccggtta acaacggaac catttccaag gttattgggc   180

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10

agcatacgac agaaatccta accttgcaaa ccttcttgtg gatccagaat ttgcaaagga   180

aatagtggat agacaatctg catggagaag agttgtgtgt cttgctatca actatggcac   240

tagcacacca   250

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agtactgtag tgcagccaat caggatc   87

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<212>   DNA
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aaaggtggct ctggtaattt tgtgaaaatg atccacaatg gcatcgaata tggtgacatg   120

cagctgattg cagaggccta tgatgtgctg aagtcagttg gaaagttgtc aaatgaggaa   180

ctacaaagtg tcttctcaga atggaacaag ggagaacttc tgagtttcct gattgaaatc   240

actgcagata tatttg   256

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<400>   31

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tcgaatctgg tgacatgcag ctgattgcag aggcctatga tgtgctgaag tcagttggaa   120

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agtttcctga ttgacatcac tgcagatata ttt   213

<210>   32

<211>   268
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   32

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ggtaattttg tgaaaatgat ccacaatggc atcgaatatg gtgacatgca gctgattgca   120

gaggcctatg atgtgctgaa gtcagttgga aagttgtcaa atgaggaact acaaagtgtc   180

tcctcagaat ggaacaaggg agaattctga gtttccgatt ganatcatgc agatatattg   240

gattcangag ataagggaga nggatacc   268

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<211>   109
<212>   DNA
<213>   Glycine max

<400>   33

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ggcctatgat gtgctaaagt cggttggaaa gttgtcaaat gaggagctg   109

<210>   34
<211>   277
<212>   DNA
<213>   Glycine max

<400>   34

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tgaagcatca ttggatgcaa ggttcctgag tgggttgaag gaggaaagag ttgaagctgc   120

aaaggtcttt aaatcaggtg gtattggtga tatcgtgact gatcaacctg tagacaagaa   180

aaaattggtt gatgatgtta ggaaggctct ttatgcagcc aaaatctgta gttatgcaca   240

gggaatgaat ttgatccgtg caaagagtat tgaaaag   277

<210>   35
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<213>   Glycine max

<400>   35

12

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ggtggcattg gtgatattgt gactgatcaa cctgtagaca agcagaagtt gattgatgat   120

gttaggaagg ctctttatgc agccagaatc tgtagttatg cacagggaat gaatttgatc   180

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aaagggggtt gc                                                       252
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gcaagctgct gaattatcaa ttgctgctcc cactattgaa gcatcattgg atgcaaggtt   120

cctgagtggg ttgaaggagg aaagacttga agctgcaaag gtctttaaat caggtggtat   180

tgctgatatc gtgactgatc aacctgtaga caagaaaaaa ttggttgatg atgttaggaa   240

ggctctttat gcagccaaaa tc                                            262
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<210>     37
<211>     241
<212>     DNA
<213>     Glycine max

<223>     unsure at all n locations
<400>     37
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ggcatgaagg gcactggtaa gtggactgtt cagcaagctg ctgaattatc aattgctgct   120

cccactattg angcatcatt ggatgcaagg ttcctgagtg ggttgaagga ggaagagttg   180

aagctgcaaa ggtctttaaa tcaggtggta ttggtgatat cgtgactgat caacctgtag   240

a                                                                  241
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<212>     DNA
<213>     Glycine max
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<400>   38

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gacaagactg gcatgaaggg cactggtaag tggactgttc agcaagctgc tgaattatca   180

attgctgctc ccactattga agcatcattg gatgcaaggg tcctgagtgg ggtgaagga   239

<210>   39
<211>   252
<212>   DNA
<213>   Glycine max

<400>   39

ggagatggat tcttgttgac aaggtcctag acaagactgg catgaagggc actggtaagt   60

ggactgttca gcaagctgct gaattatcaa ttgctgctcc cactattgaa gcatcattgg   120

atgcaaggtt cctgagtggg ttgaaggagg aaagagttga agctgcaaag gtctttaaat   180

caggtggtat tggtgatatc gtgactgatc aacctgtaga caagaaaaaa ttggttgata   240

tgttaggaag gc   252

<210>   40
<211>   262
<212>   DNA
<213>   Glycine max

<400>   40

ctcgagccgt tcttagacag aatcaagcag gcatatgaaa gaacccctaa tctggcaaac   60

cttcttgtgg atccagagtt tgcaaaggaa ataattgatt accaatctgc ctggaggaga   120

gttgtttgcc ttgctatcaa ttctggtatt agcactccag gtatgtctgc tagtcttgct   180

tattttgaca cttacagaag ggaaaggttg ccagctaatt tggtgcaagc tcaacgagac   240

tactttggtg ctcatacata tg   262

<210>   41
<211>   167
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   41

accttcttgt ggatccagag tttgcaangg aaataatcga tcgccaatct gcctggagga   60

gagttgtttg ccttgctatc aattctggta tcagcactcc aggtatgtct gctagtctng 120

cttatnttga cacttacaga agggaaaggt nnccagctaa tttggtg   167

<210>   42
<211>   230
<212>   DNA
<213>   Glycine max

<400>   42

gtgatagcga tgtccgaatt gggtcttctc taccttggga tgggagtttc aggtggtgaa   60

gaaggtgcaa gacatggtcc ctctttgatg cctggtggtt cattcgagga ctacaagtac 120

atagaagaca ttctcctcaa ggtagacgca caagtccctg atagtggtca ttgtgtgacc 180

tacatcggca aaggtggatc aggaaatttt gtgaaaatga tccacaatgg   230

<210>   43
<211>   245
<212>   DNA
<213>   Glycine max

<400>   43

gtgaaagcga tgtccgaatt gggtcttctc taccttggga tgggagtttc aggaggtgaa   60

gaaggtgcaa gacatggtcc ctctttgatg cctggtggtt cattcgaggc ctacaagtac 120

atagaagaca ttctcctcaa ggtggccgca caagtccctg atagtggtcc ttgtgtgacc 180

tacatcggca aaggtggatc aggaaatttt gtgaaaatga tccacaatgg aattgagtat 240

ggtga   245

<210>   44
<211>   289
<212>   DNA
<213>   Glycine max

<400>   44

atctgcctgg aggagagttg tttgccttgc tatcaattct ggtattagca ctccaggtat   60

gtctgctagt cttgcttatt ttgacactta cagaagggaa aggttgccag ctaatttggt 120

gcaagctcaa cgagactact ttggtgctca tacatatgaa agggttgaca tagagggtc   180

15

ttaccatact gagtggttca agcttgccaa acagtcaaga aattagatta ctgtatttga   240

gccatcagga ttttcctaat aaatgtaata ttgtctgctc agactgtat   289

<210>   45
<211>   272
<212>   DNA
<213>   Glycine max

<400>   45

tcaggtatgt ctgctagtct tgcttatttt gacacttaca gaagggaaag gttgccagct   60

aatttggtgc aagctcaacg agactacttt ggtgctcata catatgaaag ggttgacata   120

gaggggtctt accatactga gtggttcaag cttgccaaac agtcaagaaa ttagattact   180

gtatttgagc caatcaggat tttcctaata aatgtaatat tttctgctca gactgtatgc   240

tgagttgagt ttgcatatcc acaatgtggt ga   272

<210>   46
<211>   246
<212>   DNA
<213>   Glycine max

<400>   46

ctaagataca acatagttgg aaaacaaact atcaagcaat tcagttggaa ataatataaa   60

taaaacttca ccacgttgtg gctatgtaaa ctcaactcag catacagtct gagcagaaaa   120

cattacattt attaggaaaa tcctgattgg ttcaaataca gtaatctaaa ttctagactg   180

tttggcaagc ttgaaccact cagtatggta agacccctct atgtcaacca ttcatatgta   240

tgagca   246

<210>   47
<211>   156
<212>   DNA
<213>   Glycine max

<400>   47

ggggtcttac catactgagt ggttcaagct tgccaaacag tcaagaaatt agattactgt   60

atttgagcca atcaggattt tcctaataaa tgtaatattt ctgctcaga ctgtatgctg   120

agttgagttt gccaagcaat tcagttggaa ataatg   156

16

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<210>      48
<211>      250
<212>      DNA
<213>      Glycine max

<400>      48

tatggctacc atgaccccga agcttttgtt cattccattc aaaagcctag ggtgataata   60

atgcttgtta aggctggggc acctgttgac cagaccatta agaccctatc tgcatacatg  120

gaaaaaggtg actgcataat tgatggtggt aacgaatggt acgagaacac cgaaaggaga  180

gagaaatcgg tggctgaatt gggtctgctc taccttggga tgggagtttc tggtggtgag  240

gaaagtgctc                                                          250


<210>      49
<211>      170
<212>      DNA
<213>      Glycine max

<400>      49

ggcacctgtt gaccagacca ttaagaccct atctgcatac atggaaaaag gtgactgcat   60

aattgatggt ggtaacgaat ggtacgagaa caccgaaaga agagagaaat cggtggctga  120

attgggtctg ctctaccttg ggatgggagt ttctggtggt gaggaaggtg              170


<210>      50
<211>      275
<212>      DNA
<213>      Glycine max

<400>      50

gacgacagaa gggagaaatc ggtggctgaa ttgggtctgc tctacctcgg gatgggagtt   60

tctggtggtg aggaaggtgc tcgtaatggt ccctctttga tgcctggtgg ttcgtttgag  120

gctttcaaat acatagaaga tattcttctc aaggtggcag ctcaagtccc tgacagtggt  180

ccttgcgtga cttatattgg taaaggtggc tctggtaatt ttgtgaaaat gatccacaat  240

ggcatcgaat atggtgacat gcagctgatt gcaga                              275


<210>   .   51
<211>      256
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<212>        DNA
<213>        Glycine max

<400>        51

acggctgcga  gaagacgaca  gaagggggaa  aaaggtgact  gtataattga  tggtggtaac     60

gaatggtatg  agaacactga  aagaagagag  aaagaggtgg  ctgaattggg  tctgctctac    120

cttgggatgg  gagtttctgg  tggtgaggaa  ggtgctcgta  atggtccctc  tttgatgcct    180

ggtggttcgt  ttgaggcttt  caaatacata  gaagatattc  ttctcaaggt  ggcagctcaa    240

gtacctgaca  gtggtc                                                         256


<210>        52
<211>        252
<212>        DNA
<213>        Glycine max

<400>        52

gactgccata  ttgatggtgg  taacgaatgg  tacgagaaca  ccgaaagaag  agagaaatcg     60

gtggctgaat  tgggtctgct  ctaccttggg  atgggagttt  ctggtggtga  ggaaggtgct    120

cgtaatggtc  ctctttgatg  cctggtggtt  cgtttgaggc  tttcaaatac  atagaagata    180

ttcttctcaa  ggtggcagct  caagtccctg  acagtggtcc  ttgcgtgact  tatattggta    240

aaggtggctc  tg                                                             252


<210>        53
<211>        346
<212>        DNA
<213>        Glycine max

<400>        53

gtgaagttaa  ggaaatcaat  tatggctcaa  ccctcaacaa  gaatagggcc  ttgctggact     60

ggctgttatg  ggccaaaatc  tagcactcaa  tattgctgag  aaaggctttc  ccatttctgt    120

ttataaccga  accacttcca  aggttgatga  gactgtagaa  cgagcaaaac  aagaaggaaa    180

tcttccagtt  tatggctacc  atgaccccga  agcttttgtt  cattccattc  aaaagcctag    240

ggtgataata  atgcttgtta  aggctggggc  atctgttgac  cagaccatta  agaccctatc    300

tgcatacatg  gaaaaaggtg  actgcataat  tgatggtggt  aacgaa                     346
```

18

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<210>      54
<211>      283
<212>      DNA
<213>      Glycine max

<400>      54

ccagacctta attttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc      60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat     120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac     180

tgtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accccgaagc     240

ttttgtcatt ccattcaaaa gcctagggtg ataataatgc ttg                       283


<210>      55
<211>      276
<212>      DNA
<213>      Glycine max

<400>      55

caaatttcag gaaatcaatt atggctcaac cctcaacaag aataggcctt gctggactgg      60

ctgttatggg ccaaaatcta gcactcaata ttgctgagaa aggctttccc atttctgttt     120

ataaccgaac cacttccaag gttgatgaga ctgtagaacg agcaaaacag gaaggaaatc     180

ttccagttta tggctaccat gaccccgaag cttttgttca ttccattcaa aagcctaggg     240

tgataataat gcttgttaag gctggggcac ctgttg                               276


<210>      56
<211>      289
<212>      DNA
<213>      Glycine max

<400>      56

cagaccttaa ttgttctctc attcgcttca aatttcagga aatcaattat ggctcaaccc      60

tcaacaagaa taggccttgc tggactggct gttatgggcc aaaatctagc actcaatatt     120

gctgagaaag gctttcccat ttctgtttat aaccgaacca cttccaaggt tgatgagact     180

gtagaacgag caaaacaaga aggaaatctt ccagtttatg gctaccatga ccccgaagct     240

tttgttcatt ccattcaaaa gcctagggtg ataataatgc ttgttaagg               289
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19

<210> 57
<211> 267
<212> DNA
<213> Glycine max

<400> 57

cctcattcgc ttcaaatttc aggaaatcaa ttatggctca accctcaaca agaataggcc   60

ttgctggact ggctgttatg ggccaaaatc tagcactcaa tattgctgag aaaggctttc   120

ccatttctgt tttaaccgaa ccacttccaa ggttgatgag actgtagaac gagcaaaaca   180

agaaggaaat cttccagttt atggctacca tgaccccgaa gcttttgttc attccattca   240

aaagcctagg gtgataataa tgcttgt   267

<210> 58
<211> 260
<212> DNA
<213> Glycine max

<400> 58

ccagacctta atttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc   60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat   120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac   180

tgtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accccgaagc   240

ttttgttcat tccattcaaa   260

<210> 59
<211> 260
<212> DNA
<213> Glycine max

<400> 59

tgtgattcca gaccttaatt tttctctcat tcgcttcaaa tttcaggaaa tcaattatgg   60

ctcaaccctc aacaagaata ggccttgctg gactggctgt tatgggccaa aatctagcac   120

tcaatattgc tgagaaaggc tttcccattt ctgtttataa ccgaaccact tccaaggttg   180

atgagactgt agaacgagca aaacaagaag gaaatcttcc agtttatggc taccatgacc   240

ccgaagcttt tgttcattcc   260

```
<210>      60
<211>      265
<212>      DNA
<213>      Glycine max

<400>      60

cagaccttaa tttttctctc attcgcttca aatttcaggg gatcaattat ggctcaaccc    60

tcaacaagaa tatgccttgc tggactggct gttatgggcc agaatctagc actcaatatt   120

gctgagaaag gctttcgcat ttctgtttat aaccgaacca cttccaaggt tgatgagact   180

gtagaacgag caaaacaaga aggaaatctt ccagtttatg gctaccatga ccccgaagct   240

tttgttcatt ccattcaaaa gccta                                         265


<210>      61
<211>      263
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      61

ctagacctta attttтctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc    60

ctcaacaaga ataggccttg ctggactggc tgttatgggt ccaaatctag cactcaatat   120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac   180

tgtagaacta gcannacaag aaggaaatct tccagtttat ggctaccatg accccgaagc   240

ttttgttcat tccattcaaa agc                                           263


<210>      62
<211>      279
<212>      DNA
<213>      Glycine max

<400>      62

tgctctgtga ttccagacct taattttttcc ctcattcgct tcaaatttca ggaaatcaat    60

tatggctcaa ccctcaacaa gaataggcct tgcacctctg ctgttatgg gccaaaatct   120

agcactcaat attgctgaga aaggctttcc catttctgtt tataaccgaa ccacttccaa   180

ggttgatgag actgtagaac gagcaaaaca agaaggaaat cttccagttt atggctacca   240

tgaccccgaa gcttttgttc attccattca aacgcctag                           279
```

21

<210>   63
<211>   284
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   63

tgattccaga cccttaatttt tctctcattc gcttcaaatt tcaggaaatc aattatggct   60

caaccctcaa caagaatagg ccttgctgga ctggctgtta tgggccaaaa tctagcactc   120

natattgctg agaaaggctt tcccatttct gnttataacc gnaccacttc caaggntgat   180

gagactgtag nacgagcnaa acaggaagga aatcttccag tttatggcta ccatgacccc   240

gnagctttgt tcattccatt caaaagctag ggtgataata atgc   284

<210>   64
<211>   256
<212>   DNA
<213>   Glycine max

<400>   64

gtgattccag accttaattt ttctctcatt cgcttcaaat ttcaggaaat caattatggc   60

tcaaccctca acaagaatag gccttgctgg actggctgtt atgggccaaa atctagcact   120

caatattgct gagaaaggct ttcccatttc tgtttataac cgaaccactt ccaaggttga   180

tgagactgta gaacgagcaa aacaggaagg aaatcttcca gtttatggct accatgaccc   240

cgaagctttt gttcat   256

<210>   65
<211>   265
<212>   DNA
<213>   Glycine max

<400>   65

ccgtgctctg tgattccaga cccttaatttt tctctcattc ccttcaaatt tcaggaaatc   60

aattatggct caaccctcaa caagaatagg ccttgctgga ctggctgtta tgggccaaaa   120

tctagcactc aatattgctg agaaaggctt tcccatttct gtttataacc gaaccacttc   180

caaggttgat gagactgtag aacgagcaaa acaagaagga aatcttccag tttatggcta   240

ccatgacccc gaagcttttg ttcat   265

22

```
<210>      66
<211>      275
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      66

gtgattccca gaccttattt nttctgtcat ttgcttcaaa tttcaggaga ttaattatgg    60

ctcaacccan aacaagaata ggccttnctg gattggctgt tatgggccaa aatctggcac   120

tcaatattgc tgagaaaggc ttncccattt ctgtttacaa ccgaaccact tccaaggttg   180

atgagacagt agaacgagca aaacaagaag gaaatcttcc agtttatggc taccatgacc   240

ctgaagcttt tgttcattcc attcaanagc ctagg                              275


<210>      67
<211>      236
<212>      DNA
<213>      Glycine max

<400>      67

cagaccttaa tttttctctc attcgcttca aatttcagga aatcaattat ggctcaaccc    60

tcaacaagaa taggccttgc tggactggct gttatgggcc aaaatctagc actcaatatt   120

gctgagaaag ctttcccat ttctgtttat aaccgaacca cttccaaggt tgatgagact    180

gtagaacgag caaaacagga aggaaatctt ccagtttatg gctaccatga ccccga       236


<210>      68
<211>      280
<212>      DNA
<213>      Glycine max

<400>      68

cacagacctt atgatttctg tcatttacat caaatttcag gagattaatt atggctcaac    60

ccataacaag aataggcctt gctggattgg ctgttatggg ccaaaatctg gcactcaata   120

ttgctgagaa aggctttccc attctgttta caaccgaacc acttccaagg ttgatgagac   180

agtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accctgaagc   240

ttttgttcat tccattcaaa agcctagggt gatactaatg                         280
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<210> 69
<211> 281
<212> DNA
<213> Glycine max

<400> 69

ctgtgattcc cagaccttat tttttctgtc atttgcttca agtctcagga gattgattat   60

ggctcaaccc acaacaagaa taggccttgc tggattggct gttatgggcc aaaatctggc   120

actcaatatt gctgagaaag ctttcccat ttctgtttac aaccgaacca cttccaaggt   180

tgatgagaca gtagaacgag caaaacaaga aggaaatctt ccagtttatg gctaccatga   240

ccctgaagct tttgttcatt ccattcaaaa gcctagggtg a   281

<210> 70
<211> 261
<212> DNA
<213> Glycine max

<400> 70

gattcccaga ccttattttt tctgtcattt gcttcaaatt tcaggagatt aattatggct   60

caacccacaa caagaatagg ccttgctgga ttggctgtta tgggccaaaa tctggcactc   120

aatattgctg agaaaggctt tcccatttct gtttacaacc gaaccacttc caaggttgat   180

gagacagtag aacgagcaaa acaagaagga aatcttccag tttatggcta ccatgaccct   240

gaagcttttg ttcattccat t   261

<210> 71
<211> 225
<212> DNA
<213> Glycine max

<400> 71

cttaatttgt ctctcattcg cttcaaattt caggaaatca attatggctc gaccctcgac   60

aagaataggc cttgctggac tggctgttat ggggcaaaat ctagcactca atattgctga   120

gaaaggcttt cccatttctg tttataaccg aaccacttcc aaggttgatg agactgtaga   180

acgagcaaaa caagaaggaa atcttccagt ttatggctac catga   225 .

<210> 72

24

<211>   265
<212>   DNA
<213>   Glycine max

<400>   72

ccagacctta attttttctct cattcgcttc agctttcagg aaatcaatta tggctcaacc   60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat   120

tactgagaaa ggctgtccca tttctgttta taaccgaacc acttccaagg ttgatgagac   180

tgcagaacga gcaaaacaag aaggacatct tccagtttat ggctaccatg accccgaagc   240

ttttgttcat tccattcaaa agccc   265

<210>   73
<211>   288
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   73

cccgcatctt ttgatccgtg ctctgtgatt cccagacctt atttntnctg tcatttgctt   60

caaatntcag gagattaatt atggctcaac ccacaacaag aataggcctt gctggattgg   120

gctgttatgg gccaaaatct ggcactcaat attgctgaga aaggctttcc catttctgtt   180

tacanccgaa ccacttccaa ggttgatgag acagtagaac gagcaaanca agangggaaat   240

cttccagttt atggctacca tgaccctgaa gcttttgttc nttccatt   288

<210>   74
<211>   259
<212>   DNA
<213>   Glycine max

<400>   74

gatccgtgct ctgtgattcc cagaccttat tttttctctc atttgcttca aatttcagga   60

gattaattat ggctcaaccc acaacaagaa taggccttgc tggattggct gttatgggcc   120

aaaatctggc actcaatatt gctgagaaag ctttcccat ttctgtttac aaccgaacca   180

cttccaaggt tgatgagaca gtagaacgag caaaacaaga aggaaatctt ccagtttatg   240

gctaccatga ccctgaagc   259

25

```
<210>      75
<211>      250
<212>      DNA
<213>      Glycine max

<400>      75

tccagacctt aatttttctc tcattcgctt caaatttcag gaaatcaatt atggctcaac    60

cctcaacaag aataggcctt gctggactgg ctgttatggg ccaatatcta gcactcaata   120

ttgctgagaa aggtttccca tttctgttta taaccgaacc acttccaagg ttgatgagac   180

tgtagaacga gcaaaacaag aaggaaatct tccagtttat ggctaccatg accccgaagc   240

ttttgttcat                                                          250


<210>      76
<211>      220
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      76

cnagacctta atttttctct cattcgcttc aaatttcagg aaatcaatta tggctcaacc    60

ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat   120

tgctgagaaa ggctttccca tttcgncnta taaccgaacc acttccaagg ttgatgagac   180

tgtagaacga gcaaaacaag aaggaaatct tccagtttnt                         220


<210>      77
<211>      230
<212>      DNA
<213>      Glycine max

<400>      77

tgtgattcca gaccttaatt tttctctcat tcgcttcaaa tgtcaggaaa tcaagtatgg    60

ctcaaccctc cacaagagta ggccttgctg gactggctgt tatgggccca aatctagcac   120

tcaatattgc tgagaaaggc tttcccattt ctgtttataa ccgaaccact tccaaggttg   180

atgagactgt agaacgagca aaacctgaag gcaatcttcc agtttatggc               230


<210>      78
<211>      259
<212>      DNA
```

26

<213>   Glycine max

<400>   78

cttatttttt ctgtcatttg cttcaaattt caggagatta attatagctc aacccacaac   60

aagaataggc cttgctggat tggctgttat gggccaaaat ctggcactca atattgctga   120

gaaaggcttt cccatttctg tttacaaccg aaccacttcc aaggttgatg agacagtaga   180

acgagcaaaa caagaaggaa atcttccagt ttatggctac catgaccctg aagcttttgt   240

tcattccatt caaaagcct   259

<210>   79
<211>   256
<212>   DNA
<213>   Glycine max

<400>   79

cttttgatcc gtgctctgtg attcccagac cttatttttt ctgtcatttg cttcaaattt   60

caggagatta attatggctc aacccacaac aagaataggc cttgctggat tggctgttat   120

gggccaaaac tggcactcaa tattgctgag aaaggctttc ccatttctgt ttacaaccga   180

accacttcca aggttgatga gacagtagaa cgagcaaaac aagaaggaaa tcttccagtt   240

tatggctacc atgacc   256

<210>   80
<211>   253
<212>   DNA
<213>   Glycine max

<400>   80

cccagacctt attttttctg tcatttgctt caaatttcag gagataatta tggctcaacc   60

cacaacaaga ataggccttg ctggattggc tgttatgggc caaaatctgg cactcaatat   120

tgctgagaaa ggctttccca tttctgttta caaccgaacc acttccaagg ttgatgagac   180

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27

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ctcaacaaga ataggccttg ctggactggc tgttatgggc caaaatctag cactcaatat   120

tgctgagaaa ggctttccca tttctgttta taaccgaacc acttccaagg ttgatgagac   180

tgtagaccga gcaaaaca   198

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tgattcccag accttatttt ttctgtcatt tgcttcaaat ttcaggagat taattatggc   120

tcaacccaca acaagaatag gccttgctgg attggctgtt atgggccaaa atctggcact   180

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tgagacagta gaacgagcaa aacaagaagg aaatcttcca g   281

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ctggcactca atattgctga gaaaggcttt cccatttctg tttacaaccg aaccacttcc   180

aaggttgatg agacagtaga acgagcaaaa caagaaggaa atcttccagt ttatggctac   240

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28

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tgccagattt tggcccataa cagccaatcc agcaaggcct attcttgttg tgggttgagc   120

cataattaat ctcctgaaat ttgaagcaaa tgacagaaaa aataaggtct gggaatcaca   180

gagcacggat caaaagatgc gggggaataa gttatatata tatgtatgta   230

<210>   85
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<212>   DNA
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ataggccttg ctggactggc tgttatgg   88

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aacctgatcc tcaacatgaa cgacaagggt ttcaccgtcg tcgcctacaa ccgaaccacc   180

tccaaggtcg accacttcct gg   202

<210>   87
<211>   173
<212>   DNA
<213>   Glycine max

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atcatgtctg tcgagcccaa gggagatgtc ggactcattg gtctggccgt tatgggtcaa   120

aacctgatcc tcaacatgaa cgacaagggt ttcaccgtcg tcgcctacaa ccg   173

<210>   88

<211>   237
<212>   DNA
<213>   Glycine max

<400>   88

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gagatggagt ttggattttt gggtttgggg ataatgggta aggctatggc aatcaatctg   120

ctacgccatg gcttcaaggt cactatttgg aacagaaccc tctccaagtg tgatgaactc   180

gtgcaacatg gtgcttcagt tggagaaacc ccagcaactg tagtcaagaa atgcaag   237

<210>   89
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<213>   Glycine max

<400>   89

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ttgctggcct ggctgtgatg ggccaaaacc ttgctctcaa cattgctgag aaaggctttc   120

ccatttctgt ctacaaccgg accgcgtcca aggttgatga gacagttgaa agagcaaaac   180

aagaaggaaa ccttcctgtg tatggctacc atgaccctaa attctttgtc caatccattc   240

aaaagccaag ggtca   255

<210>   90
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gctgagaaag ctttcccat ttctgtctac aaccggaccg cgtccaaggt tgatgagaca   180

gttgaaagag caaaacaaga aggaaacctt cctgtgtatg ctaccatga ccctaaattc   240

tttgtccaat ccattc   256

<210>   91
<211>   256
<212>   DNA

30

<213>   Glycine max

<400>   91

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caacattgct gagaaaggct ttcccatttc tgtctacaac cggaccgcgt ccaaggttga 180

tgagacagtt gaaagagcaa aacaagaagg aaaccttcct gtgtatggct accataaccc 240

taaattcttt gtccaa   256

<210>   92
<211>   249
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<400>   92

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aacattgctg agaaaggctt tcccatttct gtctacaacc ggaccgcgtc caaggttgat 180

gagacagttg aaagagcaaa acaagaagga aaccttcctg tgtatggcta ccatgaccct 240

aaattcttt   249

<210>   93
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aagcctcaca agaataggcc ttgctggcct ggctgtgatg gccaaaacc ttgctctcaa   120

cattgctgac aaaggctttc ccatttctgt ctacaaccgg accgcgtcca aggttgatga 180

gacagttgaa agagcaaaac aagaaggaaa ccttcctgtg tatggctacc ataacctcaa 240

attctttgtc   250

<210>   94
<211>   273
<212>   DNA

31

<213>   Glycine max

<400>   94

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tgcaagcctc acaagaatag gccttgctgg cctggctgtg atgggccaaa accttgctct   180

caacattgct gagaaaggct ttcccatttc tgtctacaac cggaccgcgt ccaaggttga   240

tgagacagtt gaaagagcaa aacaagaagg aaa   273

<210>   95
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<212>   DNA
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gatacttctt tctcgcatga attttcgaac attgaacagg aaattaacca tggctcaacc   120

tgcaagcctc acaagaatag gccttgctgg cctggctgtg atgggccaaa accttgctct   180

caacattgct gagaaaggct ttcccatttc tgtctacaac cggaccgcgt ccaaggttga   240

tgagacagtt   250

<210>   96
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<400>   96

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ttcactcaga ccaggaaatt aaccatggct caacctgcaa gcctcacaag aataggcctg   180

ctggcctggg ctgtgatggg ccaaaacctt gctctcaaca ttgctgagaa aggctttccc   240

atttcgtcta caaccggacc gcgtccaagg ttgatgagac agttgaaaga gcaaacaaga   300

aggaact   307

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<211>   241
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ttaacatcaa ccctcactcc ttcgcacacc aaacccttcc ttcctatctc tcactaatct   120

aatggaatcc gcagcactgt cgcgcatagg cctggcgggc ctggcggtga tgggccaaaa   180

cctagcccta gacatcgcag aaaagggggt cccgatctcc gtgtacaacc gcacggcctc   240

t   241

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<212>   DNA
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caaaatctgt agttatgcac agggaatgaa tttgatccgt gcaaacagta ttgagcgggg   120

ttgggatttg aagttgggtg aactggcccg gatttggaaa gggggttgca ttattagagc   180

aatattctta gacagaatca agcaggcata tgaaagaaac cctaatctgg caaaccttct   240

tgtggatcca gagtttgcac aggaaatcat tgattaccaa tctgcctgca ggagagttgt   300

ttgccttgct atcaattctg gtattagcac tccaggtatg tctgctaatc ttgcttattt   360

tgacacttac agaaaggaac agtttccagc caatttggtg c   401

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<211>   435
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<213>   Glycine max

<400>   99

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ttaggaaggc tctttatgca gccaaaatct gtagttatgc acagggaatg aatttgatcc   120

gtgcaaagag tattgaaaag ggttgggatt tgaagttggg tgaactggcc cggatttgga   180

aaggtggttg catcattaga gcaatattct tagacagaat caagcaagcg tatgatagaa   240

33

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accctaatct ggcaaacctt cttgtggatc cagagtttgc aaaggaaata atcgatcgcc    300

aatctgcctg gaggagagtt gtttgccttg ctatcaattc tggtatcagc actccaggta    360

tgtctgctag tcttgcttat tttgacactt acagaaggga aaggttgcca gctaatttgg    420

tgcaagctca acgag                                                      435


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<212>      DNA
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<400>      100

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gggttgggat ttgaagttgg gtgaactggc ccggatttgg aaaggggggtt gcattattag    180

agcaatattc ttagacagaa tcaagcaggc atatgaaaga aaccctaatc tggcaaacct    240

tcttgtggat ccagagtttg caaaggaaat aattgattac caatctgcct ggaggagagt    300

tgtttgcctt gctatcaatt ctggtattag cactccaggt atgtctgcta gtcttgctta    360

gtttgacact tacaga                                                    376


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tgtgattcca gaccttaatt tttctctcat tcgcttcaaa tttcnggaaa tcaattatgg    120

ctcaaccctc aacaagaata ggccttgctg gactggctgt tatgggccaa aatctagcac    180

tcaatattgc tgagaaaggc tttcccattt ctgtttataa ccgaaccact tccaaggttg    240

atgagactgt agaacgagca aaacaagaag gaaatcttcc agtttatggc taccatgacc    300

ccgaagcttt tgttcattcc attcaaaaac ctaaggtgat                          340


<210>      102
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34

<212>   DNA
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gactactttg gtgctcatac atatgaaagg gttgacatag aggggtctta ccatactgag   120

tggttcaagc ttgccaaaca gtctagaatt tagattactg tatttgaacc aatcaggatt   180

ttcctaataa atgtaatgtt ttctgctcag actgtatgct gagttgagtt tacatagcca   240

caacgtggtg aagttttatg tatattattt ccaactgaat tgcatgatag tttgttttcc   300

aactatgttg tatctttgct gattatgctt tgtgcttgat acaaaattgt ccca   354

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<211>   399
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<213>   Glycine max

<223>   unsure at all n locations
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catttgcttc aaatttcagg gagattaatt atggctcaac ccacaacaag aataggcctt   120

gctggattgg ctgttatggg ccaaaatctg gcactcaata ttgctgagaa aggctttccc   180

atttctgttt acaaccgaac cacttccaag gttgatgaga cagtagaacg agcaaaacaa   240

gaaggaaatc ttccagttta tggctaccat gaccctgaag cttttgttca ttccattcaa   300

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aacctatctg cgtacatgga anaaagtgac tgtataatt   399

<210>   104
<211>   179
<212>   DNA
<213>   Zea mays

<400>   104

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ctgaaggacg agcgggtgga tgcctccaag atcttccatg gtgactacta ctccaccggc   120

tcgccggtgg acaaggcgca ctggttggag gacgtgatgc aggccctgta cgcgtccaa   179

35

<210>   105
<211>   270
<212>   DNA
<213>   Zea mays

<400>   105

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aattaagaga atcaaactgt gcgtacctac atcacagtaa aactgaagct acacaatgtt   120

cttcacttgc caaccataca gtacagcatt atttgaagta ctcgacttgg atctagaagc   180

ataaagataa caatagtaaa acaaaagata acccacagag agacatcaca caaagcagac   240

aacatcactt ctcataccaa ccaattcctc   270

<210>   106
<211>   291
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   106

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acattgttct caaggtggct gctcaggtcc ctgacagtgg cccgtgtgtn acgtacattg   120

gcaaaggtgg atcgggcaac tttgtcaaga tggttcacaa cggaatcgag tatgggcgat   180

atgcagctga tttccgaggc ttacgacgtt ctcaagtcgg tcggtaagct caccaacagt   240

gagctgcacc aggtgttctc cgagtggaac aagggcgagt cctgagttct t   291

<210>   107
<211>   287
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   107

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tcaagatggt gcacaacggg ancgagtacg cgacatgca gcaccatcgc cgaggcgtac   120

gacgtgctcc gcaggctcgg gggcctgtcc aactccgaga tcgccgatgt cttcgctgag   180

tggaacaggg gggagctcga gagcttcctg gtcnagatca ccgccgacat tttcaccgtg   240

gctgacccgt tggacgggag cgggagtggc ggcggggcgt ggttgat   287

<210>   108
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<212>   DNA
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<400>   108

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caactccgag atcgccgacg tcttcgcgga gtggaacagg ggggagctcg agagcttcct   120

ggtccagatc atcgccgaca ttttcatcgt gctgacccgt tagactggag ctggatcggc   180

ggtcaggacg ct   192

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<213>   Zea mays

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agggaacttc gtcaagatgc ttcacaattg aattgagtat ggttgcatgc aacttatcga   120

cgaggcttat gatttactca agtcggtgag taagctcatc aacagcgagc tgcatcaggt   180

attctctgag tgtgaatcaa ggtgagctcc tcagtatctt gattaagatc acggccgaca   240

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<211>   325
<212>   DNA
<213>   Zea mays

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caacattgca gaggaagggt tccccatctc tgtgtacaac aggagaagct ccaaggtgga   120

cgagaccgtg ccacgtgcca acgcagtacg aaaccttccc gtctagggct tccatgaccc   180

cgcgttcgtt gtgaagtcca ttcagaagcc acgggtggtg atcatgctcg tcaaagccgg   240

cgcgcagttg accagaccat cgcgactctc gcagctcact tggagcaggg cgactgcatc   300

37

atcgctcgtg ggaacgagtg gtacg   325


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<212>      DNA
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atcgaagcgt tcttggactc gaggttcctg agcgggctga aggacgagcg ggtggaggcc  120

tccaagatct tccagggtga ctactactcc accggctcgc cggtggacaa ggcgcagctg  180

gtggaggacg tgaggcaggc cctgtacgcg tacaagatct gc                     222


<210>      112
<211>      334
<212>      DNA
<213>      Zea mays

<400>      112

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tctatatgcc tccaagatct gcagttacgc gcagggcatg aacatcatca aggccaagag  120

ctcagagaaa ggatggggcc tcaaccttgg tgagctagcg aggatctgga agggagggtg  180

catcatccgt gccatcttcc tcgaccgcat caagaaggcg tacgatagga accctaacct  240

tgccaacctc ctcgttgacc ccgagttcgc ccaggagatc atagacaggc aagctgcctg  300

gcgcagggtt gtctgccttg ccatcaacaa tggc                             334


<210>      113
<211>      314
<212>      DNA
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<400>      113

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cactgagtgg aggacgtgag gcaggccctg tacgcgtcca agatctgcag ctacgcgcag  120

ggcatgaaca tcatcaaggc caagagcgcg gagaaaggct ggggcgtcga cctcggcgaa  180

ctggcacagg atctagaagg gcgggtgcat catccgcgcc atcttcctgg accgcatcaa  240
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gaaggcctac gacaggaacc cgggcctcgc cagcctgctc gtagaccccg agttcgcgca   300

ggagatcatg gaca   314

<210>   114
<211>   271
<212>   DNA
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<400>   114

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ggccaagagc tcagagaaag gatggggcct caaccttggt gagctagcga ggatctggaa   120

gggagggtgc atcatccgtg ccatcttcct cgaccgcatc aagaaggcgt acgataggaa   180

ccctaacctt gccaacctcc tcgttgaccc cgagttcgcc caggagatca tagacaggca   240

agctgcctgg cgcagggttg tctgccttgc c   271

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<211>   271
<212>   DNA
<213>   Zea mays

<400>   115

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tgcctccaag atctgcagtt acgcgcaggg catgaacatc atcaaggcca gagctcaga   120

gaaaggatgg ggcctcaacc ttggtgagct agcgaggatc tggaagggag ggtgcatcat   180

ccgtgccatc ttcctcgacc gcatcaagaa ggcgtacgat aggaacccta accttgccaa   240

cctcctcgtt gaccccgagt tcgcccagga g   271

<210>   116
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<212>   DNA
<213>   Zea mays

<400>   116

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atcatcaagg ccaagagctc agagaaagga tggggcctca accttggtga gctagcgagg   120

atctggaagg gagggtgcat catccgtgcc atcttcctcg accgcatcaa gaaggcgtac   180

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gataggaacc ctaaccttgc caacctcctc gttgaccccg agttcgccca ggagatcata   240

gacaggcaag ctgcctggcg cagggttgtc tgccttgcca tcaacaatg              289
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<210>      117
<211>      266
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<400>      117
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cctcggcgag ctggccagga tctggaaggg cgggtgcatc atccgcgcca tcttcctgga   120

ccgcatcaag aaggcctacg acaggaaccc gggcctcgcc agcctgctcg tagaccccga   180

gttcgcgcag gagatcatgg acaggcaggc ggcgtggcgc agggtggtgt gcctcgccat   240

caacaacggc gtcagacccc gggaat                                       266
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gcgaggcccg ggttcctgtc gtaggccttc ttgatgcggt ccaggaagat ggcgcggatg   120

atgcacccgc ccttccagat cctggccagc tcgccgaggt tgagcccca gcctttctcc    180

gcgctcttgg ccttgatgat gttcatgccc tgcgcgtagt gcagatcttg gacgcgtaca   240

gggcctgcct cacgtcctcc acca                                         264
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<211>      254
<212>      DNA
<213>      Zea mays

<400>      119
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gttacgcgca aggcatgaac agcatcaagg ccaagagctc agagaaagga tggggcctca   120

accttggtga gctagcgagg atctggaagg gagggtgcat catccgtgcc atcttcctcg   180
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accgcatcaa gaaggcgtac gataggaacc ctaaccttgc caacctcctc gttgaccccg   240

agttcgccca ggag   254

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<213>   Zea mays

<400>   120

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agatcttcca gggtgactac tactccaccg gctcgccggt ggacaaggcg cactggtgga   120

ggacgtgagg caggccctgt acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat   180

catcaaggcc aagagcgcgg agaaaggctg ggggctcaac ctcggcgagc tggccaggat   240

ct   242

<210>   121
<211>   225
<212>   DNA
<213>   Zea mays

<400>   121

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agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca   120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca   180

gcctgctcgt agaccccgag ttcgcgcagg agatcatgga caggc   225

<210>   122
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<212>   DNA
<213>   Zea mays

<400>   122

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg   60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca   120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca   180

gcctgctcgt agaccccgag ttcgcgcagg agatcatgga   220

41

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<212>      DNA
<213>      Zea mays

<400>      123

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ctggcgcagg gttgtctgcc ttgccatcaa caatggcgtt agcaccccag gcatgtctgc   180

aagtctggcc tacttcgact cgtaccgaag agttaggttt cgcgaaactg tggtggaggc   240

tcagagag                                                            248


<210>      124
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<212>      DNA
<213>      Zea mays

<400>      124

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg    60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca   120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca   180

gcctgctcgt agaccccgag ttcgcgcag                                     209


<210>      125
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<212>      DNA
<213>      Zea mays

<400>      125

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg    60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca   120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca   180

gcctgctcgt agaccccgag ttcgcgcagg                                    210


<210>      126
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<212>      DNA
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<213>   Zea mays

<400>   126

acgcgtccaa gatctgcagc tacgcgcagg gcatgaacat catcaaggcc aagagcgcgg   60

agaaaggctg ggggctcaac ctcggcgagc tggccaggat ctggaagggc gggtgcatca   120

tccgcgccat cttcctggac cgcatcaaga aggcctacga caggaacccg ggcctcgcca   180

gcctgctcgt agacccccgag ttcgcg   206

<210>   127
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<212>   DNA
<213>   Zea mays

<400>   127

gcgccatctt cctggaccgc atcaagaagg cctacgacag gaacccgggc ctcgccagcc   60

tgctcgtaga ccccgagttc gcgcaggaga tcatggacag gcaggcagcg tggcgcaggg   120

tggtgtgcct cgccatcaac aacggcgtca cccccggga atgtccgcta gcctgg   176

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<212>   DNA
<213>   Zea mays

<400>   128

cgtgaggcag gccctgtacg cgtccaagat ctgcagctac gcgcagggca tgaacatcat   60

caaggccaag agcgcggaga aaggctgggg gctcaacctc ggcgagctgg ccaggatctg   120

gaagggcggg tgcatcatcc gcgcca   146

<210>   129
<211>   187
<212>   DNA
<213>   Zea mays

<400>   129

tggtggagga cgtgaggcag gccctgtacg cgtccaagat ctgcagctac gcgcagggca   60

tgaacatcat caaggccaag agcgcggaga aaggcttggg gctcggcctc ggcgagctgg   120

ccaggatctg gaagggcggg tgcatcatcc gcgccatctt cctggaccgc atcaagaatg   180

cctacga   187

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<400>   130

gcctcaacct tggtgagcta gcgacgatct ggaaaggagg gtgcatcatc cgtgtaatct   60

tcctcgaccg catcaagaag gcgtacgata ggaaccctaa ccttgccaac ctcctcgttg   120

acc   123

<210>   131
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<212>   DNA
<213>   Zea mays

<400>   131

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ccttgccaac ctcctcgttg acg   83

<210>   132
<211>   270
<212>   DNA
<213>   Zea mays

<400>   132

caggattctg gacaagactg ggatgaaggg gaccgggaaa tggaccgtgc agcaggcggc   60

ggacttgcgg tggcagcgcc acgattgccg cgtcgctgga cgggaggtac ctctcagggt   120

tgaaggacga acgggtcgca gccgctgggg tgctggagga agaggggatg ccggcagcct   180

gttggagacg gttaatgtcg acaagaaggt gctggtggat acggtcaggc aagcgctcta   240

cgcctccaag atttgcagct atgcgcaggg   270

<210>   133
<211>   258
<212>   DNA
<213>   Zea mays

<400>   133

44

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ccgcgtcgca ggacgggagg tacctctcag ggttgaagga cgaacgggtc gcagccgctg   120

gggtgctgga ggaagagggg atgccggcag gcctgttgga gacggttaat gtcgacaaga   180

aggtgctggt ggatagggtc aggcaagcgc tctacgcctc caagatttgc agctatgcgc   240

agggaatgaa tctgctgc                                                  258


<210>      134
<211>      119
<212>      DNA
<213>      Zea mays

<400>      134

atgcccggtg ttgactactc cagtcggtaa tgagatttcc tgcaggaact tgtctattga    60

tctttgtaag ttaattattt atatgaataa aataagagca aacatgcttg tgtttgggc    119


<210>      135
<211>      87
<212>      DNA
<213>      Zea mays

<400>      135

atgcccggtg ttgactactc cagtcggtaa tgagatttcc tgcaggaact tgtctattga    60

tctttgtaag ttaattattt atatgaa                                        87


<210>      136
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<212>      DNA
<213>      Zea mays

<400>      136

atgtcctgga caagaccggg atgaatggaa ctgggaaatg gacagtccag caggctgctg    60

agctttctgt agctgctcct acaatcgagg cgtccttgga ctccaggttc ctcagcggtc   120

tgaaggacga gcgcgttgag gcttccaaaa tcttccaagg tgactactcc actggcctac   180

cggtggacaa ggcacagctg atcgaggacg tgaggcaagc tctatatgcc tccaagatct   240

gcagttacgc gcagggcatg aacatcatca aggccaagag ctcagagaaa ggatggggcc   300

tcaaccttgg tg                                                       312
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45

<210>   137
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<212>   DNA
<213>   Zea mays

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tcgccgaggc ttatgatgtt ctcaagtcgg tgggtaagct cacaaacagc gagctgcatc   120

aggtgttctc tgagtggaac aagggtgagc tcctcagttt cttgattgag atcacggccg   180

acatctttgg tatcaaggat gacaagggtg aaggctacct ggtcgacaag gtcctggaca   240

agaccgggat gaagggaact gggaaatgga cagtccagca ggctgctgag ctttctgtag   300

ctgctcc   307

<210>   138
<211>   305
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   138

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cagtgagctg caccaggtgt tctccgagtg gaacaagggg cgagctcctg agcttcttga   120

tcganatcac ggccgacatc tttggcatca aggacgagca tggcgatggc tacctagtgg   180

acaaggtcct tgacaagacc gggatgaaag ggacagggaa gtggacggtg cagcaggccg   240

ccgagctgtc ggtggccgct cctacgatcg angcgtcctt ggactcgagg ttcctgagcg   300

ggctg   305

<210>   139
<211>   356
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   139

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gaacaagggt gagctcctca gtttcttgat tgagatcacg gccgacatct ttggtatcaa   120

46

ggatgacaag ggtgaaggct acctggtcga caaggtcctg gacaagaccg ggatgaaggg   180

aactgggaaa tggacagtcc agcaggctgc tgagctttct gtagctgctc ctacaatcga   240

ggcgtccttg gactccaggt tcctcagcgg tctaaggacg agcgcgttga ggcttccana   300

atcttccaag gtgactactc cactgagcct acggtgngac aaggcacagc tgatcg   356

<210>   140
<211>   312
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   140

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tggtatcaag gatgacaagg gtgaaggcta cctggtcgac aaggtcctgg acaagaccgg   120

gatgaaggga actgggnaat ggacagtcca gcaagctgct gaacttcctg tagctgctcc   180

tacaatcaag gcgtccttgg actccaggtc cctcagcggt ctgaatgacg accgcgttga   240

ggcttccaaa atcttccaag gtgactactc cactggccta ccggtggaca aggcacagct   300

gatggaggac gt   312

<210>   141
<211>   275
<212>   DNA
<213>   Zea mays

<400>   141

gtggatcagg caactttgtc aagatggttc acaatgggat tgaatatggt gacatgcaac   60

ttatcgctga ggcttatgat gttctcaagt cggtgggtaa gctaacaaac agcgagctgc   120

atcaggtgtt ctctgagtgg aacaagggtg agctcctcag tttcttgatt gagatcacgg   180

ccgacatctt tggtatcaag gatgacaagg gtgaaggcta cctggtcgac aaggtcctgg   240

acaagaccgg gatgaaggga actgggaaat ggaca   275

<210>   142
<211>   268
<212>   DNA
<213>   Zea mays

<400>   142

47

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tctttggcat caaggacgag catggcgatg gctacctggt ggataaggtc cttgacaaga   120

ccgggatgaa agggacaggg aagtggacgg tgcagcaggc cgccgagctg tcggtggccg   180

ctcctacgat cgaggcgtcc ttggactcga ggttcctgag cgggctgaag gacgagcggg   240

tggaggcctc caagatcttc cagggtga                                      268


<210>      143
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<212>      DNA
<213>      Zea mays

<400>      143

cgacgttctc aagtcggtcg gtaagctcac caacagtgag ctgcaccagg tgttctccga    60

gtggaacaag ggcgagctcc tgagcttctt gatcgagatc acggccgaca tctttggcat   120

caaggacgag catggcgatg gctacctggt ggacaaggtc cttgacaaga ccgggatgaa   180

agggacaggg aagtggacgg tgcagcaggc cgccgagctg tcggtggccg ctcctacgat   240

cgaggcgtcc ttggactcga ggttcctga                                     269


<210>      144
<211>      267
<212>      DNA
<213>      Zea mays

<400>      144

ggcaaaggtg gatcgggcaa ctttgtcaag atggttcaca acggaatcga gtatggcgat    60

atgcagctga tttccgaggc ttacgacgtt ctcaagtcgg tcggtaagct caccaacagt   120

gagctgcacc aggtgttctc cgagtggaac aagggcgagc tcctgagctt cttgatcgag   180

atcacggccg acatctttgg catcaaggac gagcatggcg atggctacct agtggacaag   240

gtccttgaca agaccgggat gaaaggg                                       267


<210>      145
<211>      247
<212>      DNA
<213>      Zea mays

<400>      145
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48

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gagatcacgg ccgacatctt tggtatcaag gatgacaagg gtgaaggcta cctggtcgac    60

aaggtcctgg acaagaccgg gatgaaggga actgggaaat ggacagtcca gcaggctgct   120

gagctttctg tagctgctcc tacaatcgag gcgtccttgg actccaggtt cctcagcggt   180

ctgaaggacg agcgcgttga ggcttccaaa atcttccaag gtgactactc cactggccta   240

ccggtgg                                                            247


<210>       146
<211>       265
<212>       DNA
<213>       Zea mays

<223>       unsure at all n locations
<400>       146

cgtacnnttn gcanangtgg atcgggcaac tttgtcaaga tggtncacaa cggaatcgag    60

tatggcgata tgcagctgat ttccgangct tacgacgttc tcaagtcggt cggtaagctc   120

accaacagtg agnngcacca ngtgttctcc gantggaaca anggnnagct cctgngcttc   180

ttgatcgnga tnncggccga natcnttggc atcaaggacg agcatggcga tggctaccta   240

ntggncaagg tccntgacaa gaccg                                         265


<210>       147
<211>       216
<212>       DNA
<213>       Zea mays

<400>       147

gtccagcagg ctgctgagct ttctgtagct gctcctacaa tccaggcgtc cttggactcc    60

aggttcctca gcggtctgaa ggactagcgc gttgaggctt ccagaatctt ccaaggtgac   120

tactccactg gcctaccggt ggacaatgca cagctgatcg aggacgtgag gcaagctcta   180

tatgcctcca ggatctgcag ttacgcgcag ggcatg                            216


<210>       148
<211>       256
<212>       DNA
<213>       Zea mays

<400>       148
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49

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caagggtgag ctcctcagtt tcttgattga gatcacggcc gacatctttg gtatcaagga    60

tgacaagggt gaaggctacc tggtcgacaa ggtcctggac aagaccggga tgaagggaac   120

tgggaaatgg acagtccagc aggctgctga gctttctgta gctgctccta caatcgaggc   180

gtccttggac tccaggttcc tcaccgtctt aaaggacgac cgcgttgagg cttccaaaat   240

cttccaaggt ggatat                                                   256


<210>      149
<211>      176
<212>      DNA
<213>      Zea mays

<400>      149

aaacagcgag ctgcatcagg tgttctctga gtggaacaag ggtgagctcc tcagtttctt    60

gattgagatc acggccgaca tctttggtat caaggatgac aagggtgaag gctacctggt   120

cgacaaggtc ctggacaagc cgggatgaag ggaactggga aatggacact ccaaca        176


<210>      150
<211>      185
<212>      DNA
<213>      Zea mays

<400>      150

cgacgttctc aagtcggtcg gtaagctcac caacagtgag ctgcaccagg tgttctccga    60

gtggaacaag ggcgagctcc tgagcttctt gatcgagatc acggccgaca tctttggcat   120

caaggacgag catggcgatg gctacctggt ggacaaggtc cttgacaaga ccgggatgaa   180

aggga                                                               185


<210>      151
<211>      136
<212>      DNA
<213>      Zea mays

<400>      151

caaacagcga gctgcatcag gtgttctctg agtggaacaa ggggcggctc ctcagtttct    60

tgattgagat cacggccgac atctttggta tcaaggatga caagggtgaa ggctacctgg   120

tcgacaaggt cctgga                                                   136
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50

<210>   152
<211>   282
<212>   DNA
<213>   Zea mays

<400>   152

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ctacttcggc gctcacacgt acgagagggt tgacatgcct ggttctttcc acaccgagtg   120

gttcaagatt gcgcgcaact ccaagatctg aacatggcct cgtgtttgca tatgccagta   180

tgccaccgtg tcgagtaatc actcatatta ctgcttgcag ggaggaactg tgtttgattt   240

ttattttcca tgcgcaatgc ttaatttagg tcaggaagtc ca   282

<210>   153
<211>   248
<212>   DNA
<213>   Zea mays

<400>   153

gcacgagcag ggataggctt cccgccaacc tggtgcaggc tcagagagac tacttcggcg   60

ctcacacgta cgagagggtt gacatgcctg gttctttcca caccgagtgg ttcaagattg   120

cgcgcaactc caagatctga acatggcctc gtgtttgcat atgccagtat gccaccgtgt   180

cgagtaatca atcatattac tgcttgcagg gaggaactgt gtttgatttt tattttccat   240

gcgcaatg   248

<210>   154
<211>   254
<212>   DNA
<213>   Zea mays

<400>   154

gcgcgcaact ccaagatctg aacatggcct cgtgtttgca tatgccagta tgccaccgtg   60

tcgagtaatc aatcatatta ctgcttgcag ggaggaactg tgtttgattt ttattttcca   120

tgcgcaatgc ttaatttagg tcaggaagtc caaagtctct cccattgttt tcctgtaaga   180

gctaagcagt accagatgga gaaccttata tttgctggaa catgaataga agcatttgac   240

atgcttgtgc ttac   254

51

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<210>      155
<211>      236
<212>      DNA
<213>      Zea mays

<400>      155

gcacgagatt gcgcgcaact ccaagatctg aacatggcct cgtgtttgca tatgccagta      60

tgccaccgtg tcgagtaatc aatcatatta ctgcttgcag ggaggaactg tgtttgattt     120

ttattttcca tgcgcaatgc ttaatttagg tcaggaagtc caaagtctct cccattgttt     180

tcctgtaaga gctaagcagt accagatgga gaaccttata tttgctggaa catgaa        236


<210>      156
<211>      197
<212>      DNA
<213>      Zea mays

<400>      156

agacaggcaa gctgcctggc gcagggttgt ctgccttgcc atcaacaatg gcgttagcac      60

cccaggcatg tctgcaagtc tggcctactt cgactcgtac cgcagggaca ggcttcccgc     120

caacctggtg caggctcaga gagactactt cggcgctccc acgtacgaga gggttgacat     180

gcctggttct ttccaca                                                     197


<210>      157
<211>      281
<212>      DNA
<213>      Zea mays

<400>      157

cggacgcgtg ggcggacgcg tgggcggacg cgtgggggca agctgcctgg cgcagggttg      60

tctgccttgc cactcaacaa tggcagttac accccaggca tgtctgcaca gtctggccta     120

cttcgactcg taccgcagga caggcttccc gccaacctgg tgcaggctca gagagactac     180

ttcggcgctc acacgtacga gagggttgac atgcctggtt ctttccacac cgagtggttc     240

aagattgcgc gcaactccaa gatctgaaca tggcctcgtg t                         281


<210>      158
<211>      249
<212>      DNA
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52

<213>   Zea mays

<400>   158

cttgccatca acaatggcgt tacaccccag gcatgtctgc aagtctggcc tacttcgact   60

cgtaccgcag gacaggcttc ccgccaacct ggtgcaggct cagagagact acttcggcgc   120

tcacacgtac gagagggttg acatgcctgg ttctttccac accgagtggt tcaagattgc   180

gcgcaactcc aagatctgaa catggcctcg tgtttgcata tgccagtatg ccaccgtgtc   240

gagtaatca   249

<210>   159
<211>   150
<212>   DNA
<213>   Zea mays

<400>   159

gggaggaact gtgtttgatt tttattttcc atgcgcaatg cttaatttag gtcaggaagt   60

ccaaagtctc tcccattgtt ttcctgtaag agctaagcag taccagatgg agaaccttat   120

atttgctgga acatgaataa aagcatttga   150

<210>   160
<211>   133
<212>   DNA
<213>   Zea mays

<400>   160

gtaagtctgg cctacttcga ctcgtaccgc agggacaggc ttcccgccaa cctggtgcag   60

gctcagagag actacttcgg cgctcacacg tacgagaggg ttgacatgcc tggttctttc   120

cacaccgaat ggt   133

<210>   161
<211>   72
<212>   DNA
<213>   Zea mays

<400>   161

attgcgcgca actccaagat ctgaacatgg cctcgtgttt gcatatgcca gtatgccacc   60

gtgtcgagta at   72

53

<210>   162
<211>   327
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   162

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agaaggcgat ggaggagcgc gggctcctat atcttggcat gggcgtctcc ggaggagagg   120

agggtgcccg caatggcccg tccttgatgc ccggggggctc cttcgaggca tacaagtaca   180

ttgaagatat tcttctcaag gtggctgctc aggtacctga cagcggcccg tgcgtcacat   240

atattggcaa aagtggatca ggcaacttcg tcaagatggt tcacaatgga attgaatatg   300

gtgacatgcn acttatcgcc gaggctt   327

<210>   163
<211>   331
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   163

cgagtggtac gagaacacgg agaggangga gaaggcgatg gaggagcgcg ggctcctata   60

tcttggcatg ggcgtctccg gaggagagga nggtgcccgc aatggcccgt ccttgatgcc   120

cggggggctcc ttcgaggcat acaagtacat tgaagatatt cttctcaagg tggctgctca   180

ggtacctgac agcggcccgt gcgtcacata tattggcaaa ggtggatcag gcaactttgt   240

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tgttctcaag tcggtgggta actaacaaac a   331

<210>   164
<211>   297
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   164

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ctctggagga gagganggtg cccgcaacgg cccgtccttg atgcccggag gctcgttcga   120

ggcttacaag tacgtcgaag acattgtcct caaggtggct gctcaggtcc ctgacagtgg   180

cccgtgtgtc acgtacattg gcaaaggtgg atcgggcaac tttgtcaaga tggttcacaa   240

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ttgcggtcat ggggcagaac ccttgcctca agcattgcag agaaagggtt ccccatctct   180

gtgtacaaca ggacaacctc caaggtggac gagaccgtgc agcgtgccaa ggcagaagga   240

aaccttcccg tctacggctt ccatgacccc gcgtcctttg tgaactccat tcagaagcca   300

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gaacacggag aggagggaga aggccatgga ggagcgcggc ctcctgtatc ttggcatggg   180

tgtctctgga ggagaggagg gtgcccgcaa cggcccgtcc ttgatgcccg gaggctcgtt   240

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gagaaagggt tccccatctc tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg    180

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gtgaagtcca ttcagaagcc acgggtggtg atcatgctcg tca                      283


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56

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gaacacggag aggagggaga aggccatgga ggagcgcggc ctcttgtatc ttggcatggg  180

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<210>   172
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tgctggcctt gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc  180

catctctgtg tacaacagga caacctccaa ggtggacgag accgtgcagc gtgccaaggc  240

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57

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cccgcaacgg cccgtccttg atgcccggag gctcgttcga cgcttacaag tacgtcgaag   180

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<223>   unsure at all n locations
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agtttcttga ttgagatcac ggccgacatc ttggta   276

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ggccttgcgg tcatggggca gaaccttgcc ctcaacattg cagagaaagg gttccccatc   180

tctgtgtaca acaggacaac ctccaaggtg gacgagaccg tgcagcgtgc caaggcagaa   240

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58

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ttgaatatgg tgacatgcaa cttatcgccg aggcttatga tgttctcaag tccggtgggt   180

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agtttctgat tgagatcacg gccgacatct tggt   274

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cggtcatggg gcagaacctt gccctcaaca ttgcagagaa agggttcccc atctctgtgt   180

acaacaggac aacctccaag gtggacgaga ccgtgcagcg tgccaaggca gaaggaaacc   240

ttcccgtcta cggcttccat gaccccgcgt cctt   274

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cttgcggtca tggggcagaa ccttgccctc aacattgcag agaaagggtt ccccatctct   180

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59

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tccattcaga agccacgggt ggtgatcatg ctcgtcaagg ccggcgcgcc agttgaccag   180

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gagtggtacg agaacacg   258

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ggaggagcgc ggcctcttgt atcttggcat gggtgtctct ggaggagagg agggtgcccg   180

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ttctcaaggt ggctgctcag gtccctgaca   270

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ggagaagaag gtgcccgcaa cggcccgtcc ttgatgcccg ggagctcgtt cgacgcttac   240

aagtacgtcg a   251

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60

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cactccatag tgtaggagga ggagatggcg ctcacaagaa tcggtcttgc tggccttgcg   120

gtcatggggc agaaccttgc cctcaacatt gcagagaaag ggttccccat ctctgtgtac   180

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tggccttgcg gttatggggc agaaccttgc cctcaacatt gcagagaaag ggttccccat   240

ctctgtgtac aacaggacaa cct   263

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catggggcag aaccttgccc tcaacattgc agagaaaggg ttccccatct ctgtgtacaa   180

caggacaacc tccaaggtgg acgagaccgt gcaaggtgcc a   221

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cggaggtggc atcgccaatt caactccgca tctgaatcgg cactcggcag cgcgccagca   180

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ggtcatg   127

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63

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tcaggcaact tcgtcaagat ggttcacaat c                                  91


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gatggctctc acgaggaatg gcctcgccgg cctcgcggtc atggacaga accttgccct   180

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cagaagcccc gtgtcgtcat catgctcgtc aaggctgggg cgccggtgga ccagaccatt   180

gccacgctcg cggcgcacct ggatcagggg gactgtatcg tcgatggtgg caacgagtgg   240

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cacgagaatt ggcctcgccg gcctcgcggt catgggacag aaccttgccc tcaacatcgc   180

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67

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cctcaacatc gcggagaaag ggttccccat ctcggtctac aacaggacaa cctccaaggt   240

tgatgagacc gtgcagcgtg ccaaggtcga aggaaacctc ccagtgtttg gttt         294


<210>      206
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<213>      Zea mays

<400>      206

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cacgctcgcg gcgcaccttg atcagggggа ctgtatcgtc gatggtggca acgagtggta   120

cgagaacacg gagaggaggg agaaggcgat                                    150


<210>      207
<211>      161
<212>      DNA
<213>      Zea mays

<400>      207

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acgcaaggcc gagcgctcct cgatccagat ccaaggtagg agatggctct cacgagaatt   120

ggcctcgccg gcctcgcggt catgggacag aaccttgccc t                       161


<210>      208
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<212>      DNA
<213>      Zea mays

<400>      208
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acgcaaggcc gagcgctcct cgatccagat ccaaggtagg agatggctct cacgagaatt   120

ggcctcgccg gcatcgcggt catgggacag aaccttgccc t                       161
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<213>       Zea mays

<400>       209
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ccaaggttga tgagaccgtg cagcgtgcca aggtcgaagg aaacctcccc gtgtttggtt   120

tccacgaccc cgcgtccttc gtgagctccc atccagaagc cccgtgtcgt catcatgctc   180

gtcaaggctg gggcgccggt ggacc                                          205
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<210>       210
<211>       270
<212>       DNA
<213>       Glycine max

<400>       210
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ctgcatcatc gacggcggca acgagtggta cgagaacacc gagcgccgca tgagcctcgt   120

cgccgacaaa ggcctcctct acctcggcat gggcgtctcc ggcggcgaag acggcgcacg   180

ccacggcccc tccctcatgc ccggtgggtc ccaccaggcc tactccaacg tccaggacat   240

cctccacaaa atcgccgccc aggtcgacga                                    270
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<210>       211
<211>       165
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<400>       211
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tanctcggca tgggcgtctc cggcggcgaa gacggcgcac gccacggccc ctccctcatg   120
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cccggtgggt cccaccatgc ctactccaac gtgccagnac atcct                    165


<210>      212
<211>      248
<212>      DNA
<213>      Glycine max

<400>      212

ggcgtatgca agggaaatgg tgtatagaca ggctgcgtgg catagaatcg tggggttggc    60

ggtttcggct gggattagta ctagcggaat gtgtgccagt cttgcttggt ttgataccta   120

tcggagggca agacttccgg caaaccttgt ccaggctcag agggacttgt ttggggcgca   180

tacttacgag agggttgatc gccctggggc ttttcatacc gagtggacga aactcgctcg   240

caatagtg                                                            248


<210>      213
<211>      251
<212>      DNA
<213>      Glycine max

<400>      213

ggagtttgca agggaaatgg tgcagagaca ggctgcgtgg atgagggttg tggggttggc    60

ggtttcggct gggattagta ctcccggaat gtgtgccagt cttgcttact ttgataccta   120

tcggagggca agacttccgg caaaccttgt ccaggctcag agggacttgt ttggggcgca   180

tacttacgag agggttgatc gccctggggc ttttcatacc gagtggacga aactcgctcg   240

caatagtggg g                                                        251


<210>      214
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<212>      DNA
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tatgctcagg ggatgaattt gttgagggct aagagtaatg agaaaggatg gaacttgaat   120

ttgggggagt tagctaggat tggaagggag ggtgcatcat aagggccgtg ttcttggacc   180

ggatcaagaa ggcttatcag aggaacccta atttggcgag tttgattgtg gacccggagt   240
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atgcaaggcg aatagtccag agacacgctg cg   272

<210>   215
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<212>   DNA
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<400>   215

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tcaaagagtg acatcatcgt gtcccctтcg attctgtctg caaactttgc gaagcttggt   120

gatcaggtaa aagctgtgga ggtggcagga tgcgactgga ttcatgtcga tgtcatggac   180

gggcgctttg tgccaa   196

<210>   216
<211>   353
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   216

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ctcaaagagt gatatcaggg tngtcccttc gcatctgtct ggaaactgtc gcaaagctat   120

gttgatcagg tagaagcgtg ggaggtggca agatgtgact ggattctgtc gatgtcatgg   180

acgggcgctg tgtgcgaaat atcacaattg gacctgtggt tgttgatgct ctgcgtcctg   240

tgactgatct tccattggat gtacatctga tgattgtgga acctgagcag cgagtcactg   300

attgtatcaa ggcangtgct gatattgtta gtgtccactg tgaacagaca tcg   353

<210>   217
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<212>   DNA
<213>   Zea mays

<400>   217

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gtctgtgaat cctgggtttg gtggccagag ctttatcgag agtcaagtaa agaaaattgc   120

agaactgaga aggttatgtg cagagaaggg agtgaacccc tggattgagg ttgatggtgg   180

tgttggtccg aaaaatgcct acaaggttat tgaagctggc gcaaatgcca ttgtcgcagg   240

71

ttctgcagtt tttggggctc cagactacgc tgaagctatc aaaggaataa agaccagcca 300

aagacctcta gc 312

<210> 218
<211> 312
<212> DNA
<213> Zea mays

<400> 218

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cagcgagtcc ccgattttat caaggcaggt gctgatattg ttagtgtcca ctgtgaacag 120

acatcgacca tccatttgca ccgaacagtc aatcagatta aaagtctagg agcaaaggca 180

ggagttgttt tgaatccagc gactccactc actgcaattg attatgttct tgatgttgtt 240

gacctggtgc tgattatgtc tgtgaatcct gggtttggtg gccagagctt tatcgagagt 300

caagtaaaga aa 312

<210> 219
<211> 314
<212> DNA
<213> Zea mays

<400> 219

cctgagcagc gagtccccga ttttatcaag gcaggtgctg atattgttag tgtccactgt 60

gaacagacat cgaccatcca tttgcaccga acagtcaatc agattaaaag tctaggagca 120

aaggcaggag ttgttttgaa tccagcgact ccactcactg caattgatta tgttcttgat 180

gttgttgacc tggtgctgat tatgtctgtg aatcctgggt ttggtggcca gagctttatc 240

gagagtcaag taaagaaaat tgcagaactg agagagttat gtgcagagaa gggagtgaac 300

ccctggattg aggt 314

<210> 220
<211> 305
<212> DNA
<213> Zea mays

<400> 220

ggcaggtgct gatattgtta gtgtccactg tgaacagaca tcgaccatcc atttgcaccg 60

72

aacagtcaat cagattaaaa gtctaggagc aaaggcagga gttgtttgaa tccagcgact   120

ccactcactg caattgatta tgttcttgat gttgttgacc tggtgctgat tatgtctgtg   180

aatcctgggt ttggtggcca gagctttatc gagagtcaag taaagaaaat tgcagaactg   240

agaaggttat gtgcagagaa gggagtgaac ccctggattg aggttgatgg tggtgttggt   300

ccgaa   305

<210>   221
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<212>   DNA
<213>   Zea mays

<400>   221

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ttgaatccag cgactccact cactgcaatt gattatgttc ttgatgttgt tgacctggtg   120

ctgattatgt ctgtgaatcc tgggtttggt ggccagagct ttatcgagag tcaagtaaag   180

aaaattgcag aactgagaag gttatgtgca gagaagggag tgaacccctg gattgaggtt   240

gatggtggtg ttggtccgaa aaatgcctac aaggttattg   280

<210>   222
<211>   284
<212>   DNA
<213>   Zea mays

<400>   222

ctgtctgcaa actttgcgaa cgttggtgat caggtaaaag ctgtggaggt ggcaggatgc   60

gactggattc atgtcgatgt catggacggg cgctttgtgc caaacatcac aattggaccc   120

ttggttgttg atgctctgcg tccagtgact gatcttccgt tggatgtaca tctgatgatt   180

gtggaacctg agcagcgagt ccccgatttt atcaaggcag gtgctgatat tgttagtgtc   240

cactgtgaac agacatcgac catccatttg caccgaacag tcaa   284

<210>   223
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<212>   DNA
<213>   Zea mays

<400>   223

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tgttagtgtc cactgtgaac agacatcgac catccatttg caccgaacag tcaatcagat    60

taaaagtcta ggagcaaagg caggagttgt tttgaatcca gcgactccac tcactgcaat   120

tgattaggtt cttgatgtgg ttgacctggt gctgattatg tctgtgaatc ctgggtttgg   180

tggccagagc tttatcgaga gtcaggtaaa gaaaattg                           218
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<210>   224
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<212>   DNA
<213>   Zea mays

<400>   224

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tatcaaggca ggtgctgata ttgttagtgt ccactgtgaa cagacatcga ccatccattt    60

gcaccgaaca gtcaatcaga ttaaaagtct aggagcaaag gcaggagttg ttttgaatcc   120

agcgactcca ctcactgcaa ttgattatgt tcttgatgtt gtcgccctgg tgctgattat   180

gtctgtaaat cctgggtttg gtggccagag ctttatcgag agtcaagtaa agaaaattgc   240

agaactgag                                                          249
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<210>   225
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<212>   DNA
<213>   Zea mays

<400>   225

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gataaggtgc gcacactgag aaagaagtac ccttcccttg acatagaggt tgatggtggt    60

ctaggtcctt caaccataga cgtggccgca tctgctgggg ccaattgcat cgtcgctgga   120

agctctatat ttggcgctgc ggacccagga gccatcatat ctgtgctgag gaagagcgtc   180

gagggctctc agaacaaaaa ctgattttgg tgtttctgct gtaaagtact ccctccgttt   240

ttttttattc gtcgcgtttt agttcaaaca tgaactagcg gacgactgat attcgagaat   300

ggagggagta cttcga                                                  316
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<210>   226
<211>   301
<212>   DNA
<213>   Zea mays

<400>   226
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catcgtcgct ggaagctcta tatttggcgc tgcggaccca ggagccatca tatctgtgct   120

gaggaagagc gtcgagggct ctcagaacaa aaactgattt tggtgtttct gctgtaaagt   180

actccctccg tttttttatt cgtcgcgttt tagttcaaac atgaactagc ggacgactga   240

tattcgagaa tggagggatt acttcgaccc tgcacgtcag atgagctgat cctcacattg   300

c                                                                   301


<210>      227
<211>      247
<212>      DNA
<213>      Zea mays

<400>      227

cggttattga agctggcgca aatgccattg tcgcaggttc tgcagttttt gcggtgtcca    60

gactaacact gcagctatca aaggaataca gaccagccaa agacctctag ctgtagccgc   120

ataaggcgct ggacgtgtaa tcatttactc tgtgcaagtt taccagtgat gcgatctgta   180

tagttgtgtg tcttgtccaa ccatacgtat accgagatga aaagagacgg aggcagtgaa   240

gaactat                                                             247


<210>      228
<211>      319
<212>      DNA
<213>      Zea mays

<400>      228

attgagagag ccagagaggt gggcagatgg cgacaccgtc gtcgtcgctt tgctccagct    60

tcgcctccct gcggaccgcc tccatcggcc accccgcgg catcgcgtca tctacgccca   120

ggaaggcgtt ccaagtgagg gcatcagctc gggttgacaa gttctcaaag agtgatatca   180

ttgtgtcccc ttcgattctg tctgcaaact tcgccaagct tggtgatcag gtaaaagccg   240

tggaggtggc aggatgtgac tggattcatg tcgatgtcat ggacgggcgc tttgtgccaa   300

atatcacaat tggaccttt                                                319


<210>      229
<211>      301
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<212>      DNA
<213>      Zea mays

<400>      229

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cggaccgcct ccatcggcca cccccgtggc atcgcctcct ccacgcccag gaaggcattc   120

catgtgaggg catcagctcg ggttgacaaa ttctcaaaga gtgacatcat cgtgtcccct   180

tcgattctgt ctgcaaactt tgcgaacttg gtgatcaggt aaaagctgtg gaggtggcag   240

gatgcgactg gattcatgtc gatgtcatgg acgggcgctt tgtgccaaac atcacaattg   300

g                                                                    301


<210>      230
<211>      268
<212>      DNA
<213>      Zea mays

<400>      230

cgcagatggc gacgccgtcg tcgtcgcttt gctccagctt cgcctccctg cggaccgcct   60

ccatcggcca cccccgtggc atcgcctcct ccacgcccag gaaggcattc catgtgaggg   120

catcagctcg ggttgacaag ttctcaaaga gtgacatcat cgtgtcccct tcgattctgt   180

ctgcaaactt tgcgaacttc ggtgatcagg taaaagctgt ggaggtggca ggatgcgact   240

ggattcatgt cgatgtcatg gatgggcg                                       268


<210>      231
<211>      256
<212>      DNA
<213>      Zea mays

<400>      231

aagcgtcgtc gtcgctttgc tccagcttcg cctccctgcg gaccgcctcc atcggccacc   60

cccgtggcat cgcctcctcc acgcccagga aggcattcca tgtgagggca tcagctcggg   120

ttgacaaatt ctcaaagagt gacatcatcg tgtccccttc gattctgtct gcaaactttg   180

cgaagcttgg tgatcaggta aaagctgtgg aggtggcagg cggcgactgg attcatgtcg   240

atgtcatgga cgggcg                                                    256
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<210>   232
<211>   319
<212>   DNA
<213>   Zea mays

<400>   232

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gagaggcgcg cagatggcga cgccgtcgtc gtcgctttgc tccagcttcg cctccctgcg   120

gaccgcctcc atcggccacc cccgtggcat cgcctcctcc acgcccagga aggcattcca   180

tgtgagggca tcagctcggg ttgacaaatt ctcaaagagt gacatcatcg tgtccccttc   240

gattctgtct gcaaactttg cgaactctgg tgatcaggta aaagctgtgg aggtggcagg   300

atgcgactgg attcatgtc   319

<210>   233
<211>   287
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   233

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gtcgtcgtcg ctttgctcca gcttcgcctc cctgcggacc gcctccatcg gccacccccg   120

tggcatcgcc tcctccacgc ccagtcaagg cattccatgt gagggcatca gctcgggttc   180

acaaattctc aaagagtgac atcatcgtgt ccccttcgat tctgtctgca aactttgcga   240

acttggtgat caggtanaag ctgtggaggt ggcaggatgc gactgga   287

<210>   234
<211>   261
<212>   DNA
<213>   Zea mays

<400>   234

agagggggata gattgagaga gccagagagg tgggcagatg gcgacaccgt cgtcgtcgct   60

ttgctccagc ttcgcctccc tgcggaccgc ctccatcggc cacccccgcg gcatcgcgtc   120

atctacaccc aggaaggcgt tccaagtgag ggcatcagct cgggttgaca agttctcaaa   180

gagtgatatc attgtgtccc cttcgattct gtctgcaaac ttcgccaagc ttggtgatca   240

77

ggtaaaagcc gtggaggtgg c   261

<210>   235
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<212>   DNA
<213>   Zea mays

<400>   235

gctcttgcaa caagccaaac aacccagtgg ctgctagccg agacagggga tagattgaga   60

gagaggcgcg cagatggcga cgccgtcgtc gtcgctttgc tccagcttcg cctccctgcg   120

gaccgcctcc atcggccacc cccgtggcat cgcctcctcc acgcccagga aggcattcca   180

tgtgagggca tcagctcggg ttgacaaatt ctcaaagagt gacatcatcg tgtccccttc   240

gattctgtct gcaaactttg cgaacgttgg tgatcaggta aaagctgtgg aggtggcag   299

<210>   236
<211>   241
<212>   DNA
<213>   Zea mays

<400>   236

attgacagac aggcgcgcag atggcgacgc cgtcgtcgtc gctttgctcc agcttcgcct   60

ccctgcggac cgcctccatc ggccaccccc gtggcatcgc ctcctccacg cccaggaagg   120

cattccatgt gagggcatca gctcgggttg acaaattctc aaagagtgac atcatcgtgt   180

ccccttcgat tctgtctgca aactttgcga agcttggtga tcaggtaaaa gctgtggagg   240

t   241

<210>   237
<211>   293
<212>   DNA
<213>   Zea mays

<400>   237

ctcttgcaac aagccaaaca acccagtggc tgctagccga gacagggat agattgagag   60

agaggcgcgc agatggcgac gccgtcgtcg tcgctttgct ccagcttcgc ctccctgcgg   120

accgcctcca tcggccaccc ccgtggcatc gcctcctcca cgcccaggaa ggcattccat   180

gtgagggcat cagctcgggt tgacaaattc tcaaagagtg acatcatcgt gtccccttcg   240

attctgtctg caaactttgc gaactgtggt gatcaggtaa aagctgtgga ggt   293

<210>   238
<211>   325
<212>   DNA
<213>   Zea mays

<400>   238

accaaatcgc ttaccgcccc cgaagcgtct cggttcgcat agcagagctg ctcttgcaac   60

aagccaaaca acccagtggc tgctagccga gacaggggat agattgagag agaggcgcgc   120

agatggcgac gccgtcgtcg tcgctttgct ccagcttcgc ctccctgcgg accgcctcca   180

tcggccaccc ccgtggcatc gcctcctcca cgcccaggaa ggcattccat gtgagggcat   240

cagctcgggt tgacaaattc tcaaagagtg acatcatcgt gtccccttcg attctgtctg   300

caaactttgc gaacgttggt gatca   325

<210>   239
<211>   301
<212>   DNA
<213>   Zea mays

<400>   239

cgaagctctc ggttcgcata gcagagctgc tcttgcaaca agccaaacaa cccagtggct   60

gctagccgag acaggggata gattgagaga gaggcgcgca gatggcgacg ccgtcgtcgt   120

cgctttgctc cagcttcgcc tccctgcgga ccgcctccat cggccacccc cgtggcatcg   180

cctcctccac gcccaggaag ggattccatg tgagggcatc agctcgggtt gacaaattct   240

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a   301

<210>   240
<211>   288
<212>   DNA
<213>   Zea mays

<400>   240

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agattgagag agaggcgcgc agatggcgac gccgtcgtcg tcgctttgct ccagcttcgc   120

79

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ctccctgcgg accgcctcca tcggccaccc ccgtggcatc gcctcctcca cgcccaggaa    180

ggcattccat gtgagggcat cagctcgggt tgacaaattc tcaaagagtg acatcatcgt    240

gtccccttcg attctgtctg caaactttgc gaactgtggt gatcaggt                288


<210>     241
<211>     304
<212>     DNA
<213>     Zea mays

<400>     241

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caaacaaccc agtggctgct agccgagaca ggggatagat tgagagagag gcgcgcagat    120

ggcgacgccg tcgtcgtcgc tttgctccag cttcgcctcc ctgcggaccg cctccatcgg    180

ccaccccgt ggcatcgcct cctccacgcc caggaaggca ttccatgtga gggcatcagc    240

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cttt                                                                  304


<210>     242
<211>     229
<212>     DNA
<213>     Zea mays

<223>     unsure at all n locations
<400>     242

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cggcgaagat agcgccgtcg atgctctcgt cggactttgc caacctcgct tcggaggctg    120

agcgcatggt ccgcctaggc gccgactggc tacatatgga catcatggat gggcacttcg    180

ttcctaacct gactattggg gctccggtga tccagangct tgagaaata              229


<210>     243
<211>     269
<212>     DNA
<213>     Zea mays

<400>     243

gctacatatg gacatcatgg atgggcactt cgttcctaac ctgactattg gggctccggt     60

gatccagagc ttgaggaaac ataccaaagc atatttggac tgccatctta tggtcacaaa    120
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80

gccttcagat tacgtagaac catttggaaa ggctggcgct tctggattca cattccatat   180

agaagttgct agagacaact ggcaagatct catccaaagc attaaatcaa agggtatgcg   240

gcctggtgta tcattgaggc caggtactc   269

<210>   244
<211>   385
<212>   DNA
<213>   Zea mays

<400>   244

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taacttcctg gaggtggttg acctgtggcg gataaggtcg gtaaacccgg ggttgggggg   120

caaaacctta accaaaagtc aattaaagaa aattgcaaaa ctgaaaaggt aatgtgcaaa   180

aaagggagtg aaccccggga ttgaggttga tggtggtgtt ggtccgaaaa atgcctacaa   240

ggttattgaa gctggcgcaa atgccattgt cgcaagttct gcagtttttg gggctccaga   300

ctacgctgaa gctatcaaag gaataaagac cagccaaaga cctctagctg tagccgcata   360

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<210>   245
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<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   245

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tgatgattgt ggaacctgag cagcgagtcc ctgattttat caaggcaggt gctgatattg   180

ctagtgtcca ctgtgaacag acatcgacct tcatttgcac cgaacagtca atcagattaa   240

aagtctagga gcanaggcag ggattgttnt gaatccagcg actccactca ctgcaattga   300

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cagagcttta tcgagagtca agtaaggaa   389

<210>   246

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<212>   DNA
<213>   Zea mays

<400>   246

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atcacaattg gacccttggt tgttgatgct ctgcgtccag tgactgatct tccgttggat   180

gtacatctga tgattgtgga acctgagcag cgagtccccg attttatcaa ggcaggtgct   240

gatattgtta gtgtccactg tgaacagaca tcgaccatcc atttgcaccg aacagtcaat   300

cagattaaaa gtctaggagc aaaggcagga gttgttttga atccagcgac tccactcact   360

gcaattgatt acgttcttga tgttgttgac ctggtgctga ttatgtctgt ga   412

<210>   247
<211>   397
<212>   DNA
<213>   Zea mays

<400>   247

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gagcagcgag tccctgattt tatcaaggca ggtgctgata ttgttagtgt ccactgtgaa   120

cagacatcga ccatccattt gcaccgaaca gtcaatcaga ttaaaagtct aggagcaaag   180

gcaggagttg ttttgaatcc agcgactcca ctcactgcaa ttgattacgt tcttgatgtt   240

gttgacctgg tgctgattat gtctgtgaat cctgggtttg gtggccagag ctttatcgag   300

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tggattgagg ttgatggtgg tgttggtccg aaaaatg   397

<210>   248
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<212>   DNA
<213>   Zea mays

<400>   248

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catcacaatt ggacccttgg ttgttgatgc tctgcgtcca gtgactgatc ttccgttgga   120

82

tgtacatctg atgattgtgg aacctgagca gcgagtcccc gattttatca aggcaggtgc   180

tgatattgtt agtgtccact gtgaacagac atcgaccatc catttgcacc gaacagtcaa   240

tcagattaaa agtctaagag caaaggcagg gaattgtttg aatccagcga cttcacttac   300

tggaattgat tatggtcctg atggtggtga cctggtgctg attatgtctg tgaatcctgg   360

gtttggtggc caaagcttta ttgagagtca agttaaggaa att   403

<210>   249
<211>   419
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   249

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tttgtgccaa atatcacaat tggacctttg gttgttgatg ctctgcgtcc tgtgactgat   120

cttccattgg atgtacatct gatgattgtg gaacctgagc agcgagtccc tgattttatc   180

aaggcaggtg ctgatattgt tagtgtccac tgtgaacaaa catcgaccat ccatttgcac   240

agaacagtca atcagattaa aagtctagga gcaaaagcag gagttgtttt gaatccagcg   300

actccactca atgcaattga ttacattctt gatgttgttg acctggtgtt gattatgtct   360

gtgaatcctg ggtttggtgg ccagagcttt atcgagagtc aagtnaggaa aattgcaga   419

<210>   250
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<212>   DNA
<213>   Zea mays

<400>   250

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gcgagtcccc gattttatca aggcaggtgc tgatattgtt agtgtccact gtgaacagac   180

atcgaccatc catttgcacc gaacagtcaa tcagattaaa agtctaggag caaaggcagg   240

agttgttttg aatccagcga ctccactcac tgcaattgat tatgttcttg atgttgttga   300

cctggtgctg attatgtctg tgaatcctgg gtttggtggc cagagcttta tcgagagtca   360

agtaaagaag attgcagaac tgagaaggtt atgtgcagag aagggagtga acccctggat   420

83

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<400>      251

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ccagtgactg atcttccgtt ggatgtacat ctgatgattg tggaacctga gcagcgagtc  180

cctgatttta tcaaggcagg tgctgatatt gatagtgtcc actgtgaaca gacatcgacc  240

attcatttgc accgaacagt caatcagatt aaaagtctat gagcaaaggc aggagttgtt  300

gtgaatccag cgactgcact cactgcaatt gattacgttc ttgatgatga tgacctggtg  360

ctgattatgt ctgtgaatcc tgggtttgg                                    389
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<400>      252

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tgatgttgtt gacctggtgc tgattagggg ggtgaatcct gcgtttggtg gccagagctt  180

tatcgagagt caagtaaaga aaattgcaga actgagaagg ttatgtgcag agaagggagt  240

gaacccctgg attgaggttg atggtggtgt tggtccgaaa aatgcctaca aggttattga  300

agctggcgca aattctattt tctcaggttc tgcagttttt ggggctccag actacgctga  360

agctatcaaa tggaataaga ccatccaaag acctctagct gtagccgcat aaacaacttg  420

acgtgt                                                             426
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<400>   253

cggacgcgtg ggcggacgcg tgggctgaga aggttatgtg cagagaaggg agtgaacccc   60

tggattgagg ttgatggtgg tgttggtccg aaaaatgcct acaaggttat tgaagctggc   120

gcaaatgcca ttgtcgcagg ttctgcagtt tttggggctc cagactacgc tgaagctatc   180

aaaggaataa agaccagcca aagacctcta gctgtagccg cataaggagc tggacgtgta   240

atcatttact ctgtgcaagt ttaccagtga tgcgatctgt atagatgtgt gtcttgtcca   300

gccatacgta taccggagat gaaaagagac ggaagcagtg aagaaatatc cttttttttt   360

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<210>   254
<211>   375
<212>   DNA
<213>   Zea mays

<400>   254

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ggcgttccaa gtgagggcat cagctcgggt tgacaagttc tcaaagagtg atatcattgt   180

gtccccttcg attctgtctg caaacttcgc caagcttggt gatcaggtaa aagccgtgga   240

ggtggcagga tgtgactgga ttcatgtcga tgtcatggac gggcgctttg tgccaaatat   300

cacaattgga cctttggttg ttgatgctct gcgtcctgtg actgatcttc cattggatgt   360

acatctgatg attgt   375

<210>   255
<211>   429
<212>   DNA
<213>   Zea mays

<400>   255

cacacgcgtc cgcaacaagc caaacaaccc agtggctgct agccgagaca ggggatagat   60

tgagagagag gcgcgcagat ggcgacgccg tcgtcgtcgc tttgctccag cttcgcctcc   120

ctgcggaccg cctccatcgg ccacccccgt ggcatcgcct cctccacgcc caggaaggca   180

ttccatgtga gggcatcagc tcgggttgac aaattctcaa agagtgacat catcgtgtcc   240

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ccttcgattc tgtctgcaaa ctttgcgaag cttggtgatc aggtaaaagc tgtggaggtg   300

gcaggatgcg actggattca tgtcgatgtc atggacgggc gctttgtgcc aaacatcaca   360

attggaccct tggttgttga tgctctgcgt ccagtgactg atcttccgtt ggatgtacat   420

ctgatgatg                                                           429


<210>       256
<211>       424
<212>       DNA
<213>       Zea mays

<400>       256

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aaacaaccca gtggctgcta gccgagacag gggatagatt gagagagagg cgcgcagatg   120

gcgacgccgt cgtcgtcgct ttgctccagc ttcgcctccc tgcggaccgc ctccatcggc   180

cacccccgtg gcatcgcctc ctccacgccc aggaaggcat tccatgtgag ggcatcagct   240

cgggttgaca aattctcaaa gagtgacatc atcgtgtccc cttcgattct gtctgcaaac   300

tttgcgaagc ttggtgatca ggtaaaagct gtggaggtgg caggatgcga ctggattcat   360

gtcgatgtca tggacgggcg ctttgtgcca aacatcacaa ttggaccctt ggttgttgat   420

gctc                                                                424


<210>       257
<211>       419
<212>       DNA
<213>       Zea mays

<223>       unsure at all n locations
<400>       257

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antggctgct agccgagaca ggggatagat tgagagagag gcgcgcagat ggcgacgccg   120

tcgtcgtcgc tttgctccag cttcgcctcc ctgcggaccg cctccatcgg ccacccccgt   180

ggcatcgcct cctccacgct caggaaggca ttccatgtga gggcatcagc tcgggttgac   240

aagttctcaa agagtgacat catcgtgtcc ccttcgattc tgtctgcaaa ctttgcgaag   300

cttggtgatc aggtaaaagc tgtggaggtg gcaggatgcg actggattca tgtcgatgtc   360
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86

atggacgggc gctttgtgcc aaacatcaca attggaccct tggtttgtga tgctctgcg   419

<210>   258
<211>   416
<212>   DNA
<213>   Zea mays

<400>   258

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aacaagccaa acaacccagt ggctgctagc cgagacaggg gatagattga gagagaggcg   120

cgcagatggc gacgccgtcg tcgtcgcttt gctccagctt cgcctccctg cggaccgcct   180

ccatcggcca cccccgtggc atcgcctcct ccacgctcag gaaggcattc catgtgaggg   240

catcagctcg ggttgacaag ttctcaaaga gtgacatcat cgtgtccct tcgattctgt   300

ctgcaaactt tgcgaagctt ggtgatcagg taaaagctgt ggaggtggca ggatgcgact   360

ggattcatgt cgatgtcatg gacgggcgct ttgtgccaaa catcacaatt ggaccc   416

<210>   259
<211>   390
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   259

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gcgcagatgg cgacgccgtc gtcgtcgctt tgctccagct tcgcctccct gcggaccgcc   120

tccatcggcc accccgtgg catcgcctcc tccacgccca ggaaggcatt ccatgtgagg   180

gcatcagctc gggttgacaa attctcaaag agtgacatca tcgtgtcccc ttcgattctg   240

tctgcaaact ttgcgaagct tggtgatcag gtaaaagctg tggaagtggc aggatgcgac   300

tggattcatg tcgatgtcat ggacgggcgc tttgtgccaa acatcacaat tggacccttg   360

ngttgtgatg ctctgcgtcc agtgactgat   390

<210>   260
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<212>   DNA
<213>   Zea mays

<400>   260

87

gttttgtttg ttgtccgcct ggcgcctggc cccataacta ctctgccaca atccggggaa   60

gaatcaacct agcggtaagc ggacatggcg gcggcgaaga tagcgccgtc gatgctctcg   120

tcggactttg ccaacctcgc ttcggaggct gagcgcatgg tccgcctagg cgccgactgg   180

ctacatatgg acatcatgga tgggcacttc gttcctaacc tgactattgg ggctccggtg   240

atccagagct tgaggaaaca taccaaagca tatttggact gccatcttat ggtcacaaag   300

ccttcagatt acgtagaacc atttggaaag gctggcgctt ctggattcac attccatata   360

gaagttgcta gagacaactg gcaagatctc atccaaagca ttaaatcaaa gggta   415

<210>   261
<211>   257
<212>   DNA
<213>   Glycine max

<400>   261

aaaatttcaa ccacagtgaa ggctacatct cgtgttgaca agttttcaaa aagcgatatc   60

attgtctctc catccattct ttctgcaaac tttgcaagat tgggacaaca ggtgaaagca   120

ctgcagttgg ctggttgtga ttggcttcac gttgatgtaa tggatggccg ttttgttcca   180

aatattacaa ttggacctct tgtcggctga tgcattgcgc cctgtgacag atcttccttt   240

ggatgtacac ctgatga   257

<210>   262
<211>   272
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   262

gggagttgaa aganagaaag gaaggatggg agtgacaccg aaaattgctc cttcgatgct   60

ctcttccgac ttcgccaatt tggcttccga ggctcagcgc atgctccact tcggcgccga   120

ttggctccac atggacatca tggatgggca ttttgtcccc aatttaacta ttggcgctcc   180

agttattgaa agtttgagaa agcacacaaa gggatatttg gattgtcacc ttatggttac   240

aaatcctctt gattatgttg agnccttggc aa   272

<210>   263

<211>   260
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   263

agttgaaaga nagaaaggaa ggatgggagt gacaccgaaa attgctcctt cgatgctctc   60

ttccgacttc gccaatttgg cttccgaggc tcagcgcatg ctccacttcg gcgccgattg   120

gctccacatg gacatcatgg atgggcattt tgtccccaat ttaactattg gcgctccagt   180

tattgaaagt ttgagaaagc acacaaaggg atatttggat tgtcacctta tggttacaaa   240

tcctcttgat tatgttgagc   260

<210>   264
<211>   266
<212>   DNA
<213>   Glycine max

<400>   264

caaggaagga tgggagtgac accgaaaatt gctccttcga tgctctcttc cgacttcgcc   60

aatttggctt ccgaggctca gcgcatgctc cacttcggcg ccgattggct ccacatggac   120

atcatggatg ggtcttttgt ccccaattta actattggcg ctccagttat tgaaagtttg   180

agaaagcaca caaagggata tttggattgt caccttatgg ttacaaatcc tcttgattat   240

gttgagccct ggcaaaagc tggtgc   266

<210>   265
<211>   228
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   265

tgacaccgaa aattgctcct tcgatgctcn cttccgantt cgcnaatttg gcttccgagg   60

ctcagcgcat gctccacttc ggcgccgatt ggctccacat ggacatcatg gntgggnatt   120

ttgtccccaa tttaactatt ggcgctccag ttattganag tttgagaaag cacacaaagg   180

gatatttnng attgtcacct tatggttaca aatcctcttg attatgtt   228

<210>   266

<211>   243
<212>   DNA
<213>   Glycine max

<400>   266

caaccataga tgtggccgca tcagcagggg caaactgcat tgttgctgga agttcagtgt   60

ttggtgcccc tgagccagtt caagtaatat ccttactaag gaattctgtt gagaaagccc 120

agcaaacctt gatacagtaa aaaaaaaatg tcgtttttaag ttgcagtaca cttcacaact 180

ttgcataaac aatatgctta atgtttaaca ttttccataa gttgaataaa agatcatgtg 240

act   243

<210>   267
<211>   266
<212>   DNA
<213>   Glycine max

<400>   267

agaggttgat ggtggtttag ggccttcaac catagacgtg gccgcatcag cagggcaaa   60

ttgcattgtt gctggaagtt ctgtttttgg tgcacctgag ccagctcaag taatatccta 120

ctgaggagtt ctgttgagaa agcccagcaa acctcgatac agtaaaacaa tgtcgtttta 180

agttgcagta tacttcacaa ctttacataa acaatatgct aatgttaaca tttcataagt 240

tgaataaaag atcaagtgct tgaaaa   266

<210>   268
<211>   229
<212>   DNA
<213>   Glycine max

<400>   268

gaaaatttct gacttgagaa gagtgtgcgc ggaaaaggga gtgaatccat ggattgaagt   60

agatggtgga gttggtccag caaatgctta caaggtgatt gaggctggag ccaatgctct 120

ggttgcaggc tctgcttgtt tggagctaaa gattatgccg aagctataag aggaatcaaa 180

accagcaaaa gacctgaagc agttgctgtg tgaaatgccc atgtggttc   229

<210>   269
<211>   266
<212>   DNA

90

<213>   Glycine max

<400>   269

ccccccatccc caccccaact tgtatattgt gcataatatc tatctgcatt ctctctcttc   60

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tgattgaggc tggagccaat gctctggttg caggctctgc tgtgtttgga gctaaagatt   180

atgccgaagc tataagagga atcaaaacca gcaaagacc tgaagcagtt gctgtgtgaa   240

atgcccatgt ggttcaatat tcaccg   266

<210>   270
<211>   257
<212>   DNA
<213>   Glycine max

<400>   270

agcgatatca ttgtctctcc gtccattctt tctgcaaact tttcaaaatt gggagagcag   60

gtgaaagcag tggaattggc tggttgtgat tggattcacg ttgatgtaat ggatggtcgc   120

tttgttccaa atattacaat tggacctctt gtggttgatg cattgcgccc tgtgacagat   180

cttcctttgg atgtacacct gatgattgta gacctgaaca aagggtacca gattttatta   240

aggcaggagc tgatata   257

<210>   271
<211>   274
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   271

caagtttttca aaaagcgata tcattgtttc tccatccatt ctttctgcaa actttgcaaa   60

attgggganag cangtgaaag cagtggagtn gnnggntggt aatnggntca angtngatgt   120

aatggatggc cngtttngtn ccaaatatta caattggacc tcttgtggtt gatgcattgc   180

cgcccctgtg acagatcttc cttnggatgt acacctgatg attgtagacc ctgaacaaag   240

ggtaccagat tttattaagg caggagcccg atac   274

<210>   272
<211>   281

<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   272

cttcttcctt gtgttcatcg accctccaat cccaaatcaa tggattctgc cttcacaaaa   60

cctctctttc ccatcctcgt tccctcactt tctccaggaa gaaaatttca accacagtga   120

aggctacatc tcgtgttgac aagtttttcaa aaagcgatat cattgtttct ccatccattc   180

tttctgcaaa ctttgcaaaa ttgggagagc aggtgaaagc agtggagttg gctggttntg   240

atggattcac gttgatgtaa tggatgggcg tttgttccaa a   281

<210>   273
<211>   256
<212>   DNA
<213>   Glycine max

<400>   273

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ccttcacaaa acctctcttt cccatactcc ttccctcact ttctccagga ggaaaatttc   120

aaccacagtg aaggctacat ctcgagtcga caagtttttca aaaagcgata tcattgtctc   180

tccgtccatt ctttctgcaa acttttcaaa attggagagc aagtgaaagc agtagaattg   240

gctggttgtg attgga   256

<210>   274
<211>   273
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   274

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tgttnatcga ncctncaatc ccaaatcaat ggattctgcn ttcacaaaac ctctntttcc   120

catcctcgtt ccctnacttt ctcnaggaag aaaatttcaa ccacagtgaa ggctacatct   180

cgtgttnaca agtttttcaaa aagcgatatc attgtttctc catccattct ttntgcaaac · 240

tttgcaaaat tgggagagca ggtgaaagca gtg   273

<210> 275
<211> 260
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 275

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ggtnangtaa acttganttg aagtgaagaa ggagatggct gcaacctctt ccttgtgctt   60

catcgaccct ccaatcccag atcaatggat tcttccttca caaaacctct ctttcccata  120

ctccttccct cactttctcc aggaggaaaa tttcaaccac agtgaaggct acatctcgag  180

tcgacaagtt ttcaaaaagc gatatcattg tctctccgtc cattctttct gcaaactttt  240

caaaattggg agagcaggtg                                              260
```

<210> 276
<211> 247
<212> DNA
<213> Glycine max

<400> 276

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gtcaaacttg aattgaaggt gaagaaggag atggcagcaa cttcttcctt gtgttcatcg   60

accctccaat cccaaatcaa tggattctgc cttcacaaaa cctctctttc ccatcctcgt  120

tccctcactt tctccaggaa gaaaatttca accacagtga aggctacatc tcgtgttgac  180

aagttttcaa aaagcgatat cattgtttct ccatccattc tttctgcaaa ctttgcaaaa  240

ttgggag                                                            247
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<210> 277
<211> 255
<212> DNA
<213> Glycine max

<400> 277

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ggattggtga ggtaaacttg aattgaagtg aagaaggaga tggctgcaac ctcttccttg   60

tgctcatcga ccctccaatc ccagatcaat ggattcttcc ttcacaaaac ctctctttcc  120

catactcctt ccctcacttt ctccaggagg aaaatttcaa ccacagtgaa ggctacatct  180

cgagtcgaca agttttcaaa aagcgatatc attgtctctc cgtccattct ttctgcaaac  240

ttttcaaaat tggga                                                   255
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93

<210>   278
<211>   254
<212>   DNA
<213>   Glycine max

<400>   278

cgattggtga ggtaaacttg aattgaagtg aagaaggaga tggctgcaac ctcttccttg   60

tgctcatcga ccctccaatc ccagatcaat ggattcttcc ttcacaaaac ctctctttcc   120

catacttctt ccctcacttt ctccaggagg aaaatttcaa ccacagtgaa ggctacatct   180

cgagtcgaca gttttcaaa aagcgatatc attgtctctc cgtccattct ttctgcaaac   240

ttttcaaaat tggg   254

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<400>   279

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ccttgtgctc atcgaccctc caatcccaga tcaatggatt cttccttcac aaaacctctc   120

tttcccatac tccttccctc actttctcca ggaggaattt caaccacagt gaaggctaca   180

tctcgagtcg acaagttttc aaaaagcgat atcattgtct ctccgtccat tctttctgca   240

aacttttcaa aattgggaga gcaggtgaaa gcagtg   276

<210>   280
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tgtgctcatc gaccctccaa tcccagatca atggattctt ccttcacaaa acctctcttt   120

cccatactcc ttccctcact ttctccagga ggaaaatttc aaccacagtg aaggctacat   180

ctcgagtcga caagttttca aaaagcgata tcattgtctc tccgtccatt ctttctgcaa   240

actt   244

94

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cagcaacttc ttccttgtgt tcatcgaccc tccaatccca aatcaatgga ttctgccttc 120

acaaaacctc tctttcccat cctcgttccc tcactttctc caggaagaaa atttcaacca 180

cagtgaaggc tacatctcgt gttgacaagt tttcaaaaag cgatatcatt gtttctccat 240

ccattcttt   249

<210>   282
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<212>   DNA
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gatggctgca acctcttcct tgtgctcatc gaccctccaa tcccagatca atggattctt 120

ccttcacaaa acctctcttt cccatactcc ttccctcact ttctccagga ggaaaatttc 180

aaccacagtg aaggctacat ctcgagtcga caagttttca aaaagcgata tcattgtctc 240

tccgtccatt ctttctgcaa at   262

<210>   283
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<213>   Glycine max

<400>   283

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gcaacctctt ccttgtgctc atcgaccctc caatcccaga tcaatggatt cttccttcac 120

aaaaccttct ttcccatact ccttccctca ctttctccag gaggaaaatt tcaaccacag 180

tgaaggctac atctcgagtc gacaagtttt caaaaagcga tatcattgtc tctccgtcca 240

ttctttctg   249

<210>	284
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cgaaggagat ggcagcaact tcttccttgt gttcatcgac cctccaatcc caaatcaatg	120

gattctgcct tcacaaaacc tctctttccc atcctcgttc cctcactttc tccaggaaga	180

aaatttcaac cacagtgaag gctacatctc gtgttgacaa gttttcaaaa agcgatatca	240

ttgtttctcc atccattctt tctgc	265

<210>	285
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<212>	DNA
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<400>	285

caaggcatag gatcggtgag gcaaacttga attgaagtga agaaggagat ggctgcaacc	60

tcttccttgt gctcatcgac cctccaatcc cagatcaatg gattcttcct tcacatcacc	120

tctcttcccc atactccttc cctcactttc tccaggagga aaatttcaac cacagtgaag	180

gctacatctc gagtcgacaa gttttcaaaa gcgatatcat tgtctctccg tccattcttt	240

ctgcaaattt	250

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cacacttttg tcaaggcata ggattggtga ggtaaacttg aattgaagtg aagaaggaga	60

tggctgcaac ctcttccttg tgctcatcga ccctccaatc ccagatcaat ggattcttcc	120

ttcacaaaac ctctctttcc catactcctt ccctcacttt ctccaggagg aaaatttcaa	180

ccacagtgaa ggctacatct cgagtcgaca agttttcaaa agcgatatca ttgtctctcc	240

gtccattctt t	251

<210>   287
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<212>   DNA
<213>   Glycine max

<400>   287

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gcagcaactt cttccttgtg ttcatcgacc ctccaatccc aaatcaatgg attctgcctt 120

cacaaaacct ctctttccca tcctcgttcc ctcactttct ccaggaagaa aatttcaacc 180

acagtgaagg ctacatctcg tgttgacaag ttttcaaaaa gcgatatcat tgtttctcca 240

tccattcttt ctgcaaactt tgcaaaattg ggg   273

<210>   288
<211>   273
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   288

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gaagaaggag atggcagcaa cttcttcctt gtgttcatcg accctccaat cccaaatcaa 120

tggattctgc cttcacaaaa cctctctttc ccatcctcgt tccctcactt tctccaggaa 180

gaaaatttca accacagtga aggctacatc tcgtgttgac aagttttcaa aaagcggata 240

tcattgtttc tccatccatc tttctgcaaa ttt   273

<210>   289
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aaggagatgg cagcaacttc ttccttgtgt tcatcgaccc tccaatccca aatcaatgga 120

ttctgccttc acaaaacctc tctttcccat cctcgttccc tcactttctc caggaagaaa 180

atttcaacca cagtgaaggc tacatctcgt gttgacaagt tttcaaaaag cgatatcatt 240

gtttctccat ccattcttt   259

97

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<212>   DNA
<213>   Glycine max

<400>   290

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aaaacctctc ttgctcatac tccttccctc actttctcca ggcggaaaat ttcaaccaca 180

gtgaaggcta catctcgagt cgacaagttt tcaaaaagcg atatcatgtg gtcgctccgt 240

ccattc   246

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<212>   DNA
<213>   Glycine max

<400>   291

gctggagttg tcttaaaccc cggtacccccc ttaagtgcaa tagaatatat ccttgatgtg   60

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agtcaagtaa agaaaatttc tgatttgaga agattgtgtg cggagaaggg agtgaatcca 180

tggattgaag tagatggtgg agttggtcca gcaaatgcat acaaggtgat tgaggctgga 240

gccaatgcac tggttgctgg ct   262

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agggtaccag attttattaa ggcaggagct gatatagtca gtgttcattg tgaacaatct   60

tccaccatcc atttgcatcg tactgttaat caagtgaaaa gtctgggagc taaagctgga 120

gttgtcttaa accctgctac ccccttaagt gcaatagaat atgtcctgat gtggtggatt 180

tggtcttaat tatgtccgta aaccctggct ttggtggcca gagttttatt gagagtcaag 240

taaagaaaat ttctgacttg agaagagtgt gcgcggaaaa gg   282

98

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<210>      293
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<400>      293

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cagatcttcc tttggatgta cacctgatga ttgtagagcc tgaacaaagg gtaccagatt   120

ttattaaggc aggagctgat atagtcagtg ttcattgtga acaatcttcc accatccatt   180

tgcatcgtac agttaatcaa gtgaaaagtc tgggagctaa agctggagtt gtcttaaacc   240

ccggtaccc                                                           249


<210>      294
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<212>      DNA
<213>      Glycine max

<400>      294

ggtgaaagca gtagaattgg ctggttgtga ttggattcac gttgatgtaa tggatggtcg    60

ctttgttcca aatattacaa ttggacctct tgtggttgat gcattgcgcc ctgtgacaga   120

tcttcctttg gatgtacacc tgatgattgt agagcctgaa caaagggtac cagattttat   180

taaggcagga gctgatatag tcagtgttca ttgtgaacaa tcttccacca tccatttgca   240

tcgtacagtt aatcaagtga aaag                                           264


<210>      295
<211>      267
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      295

gtcagtgttc attgtgaaca atcttccncc atccatttgc atcctacagt taacncaagt    60

gaaaagtctg ggagctaaag ctggagttgt cttaaacccc ggtaccccct taagtgcaat   120

agaatatatc cttgatgtgg ttgatttggt cttaattatg tccgtaaacc ctggctttgg   180

tggccagagt tttattgaga gtcaagtaaa gaaaatttct gatttgagaa gattgtgtgc   240
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ggagaaggga gtgaatccat ggattga   267

<210>   296
<211>   277
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   296

gtccaattgt aatatttgga acaaaacggc catccattac aattngacct cttgtggttg   60

atgcattgcg ccctgtgaca nctcttcctt tggatgtaca cctgatgatt gtacagcctg   120

aacaaagggt accagatttt attaaggcag gagctgatat agtcagtgtt cattgtgaac   180

aatcttccac catccatttg catcgtactg ttaatcaagt gaaaagtctg ggagctaaag   240

ctggagttgt ctaaaccctg ctaccccctt aagtgca   277

<210>   297
<211>   263
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   297

ggctggagtt gtcttaaacc ccggtacccc cttaagtgca atagaatata tccttgatgt   60

ggttnatttg gtcttaattn tgtaccgtaa accctggctt tggtggccag agttttattg   120

agagtcaagt aaagaaattt ctgatttgag aagattgtgt gcggagaagg gagtgaatcc   180

atggattgaa gtagatggtg ggngttggtc cagcaaatgc atacaggtga tnggaggctg   240

gnagccaaac cntggtgcag gcc   263

<210>   298
<211>   388
<212>   DNA
<213>   Glycine max

<400>   298

ggagaaagaa agaaaagatg ggaatgacac cgaaaatagc tccttcgatg ctctcttccg   60

acttcgccaa tttggcttcc gaggctcagc gcatgctcca cttcggcgcc gattggctcc   120

acatggacat catggatggg cattttgtcc ccaatttaac tattggcgct ccagttattg   180

100

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aaagtttgag aaagcacaca aaggcatatt tggattgtca ccttatggtt acaaatcctc    240

ttgattatgt tgaacccttg gcaaaagctg gtgcttctgg ttttacattt cacgtagaga    300

catcaaaaga taactggaaa gaacttatcc aaagaatcaa gtcacatggc atgattcctg    360

gtgtagcatt aaagcctggg accccgt                                        388
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<212>       DNA
<213>       Glycine max

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gtgacagatc ttcctttgga tgtacacctg atgattgtac agcctgaaca aagggtacca    120

gattttagta aggcacgagc tgatatagtc agtgttcatt gtgaacaatc ttccaccatc    180

catttgcatc gtactgttaa tcaagtgaaa agtctgggag ctaaagctgg agttgtctta    240

aaccctgcta ccccccttaag tgcaatagaa tatgtccttg atgtggtgga tttggtccta    300

attaagtccg taaaccctgg ctttggtggc cacagtttta atgagagtca agtaaagaaa    360

atttctga                                                             368
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<210>       300
<211>       350
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<213>       Zea mays

<223>       unsure at all n locations
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cgccatcgac ggtgccgacg aggttgaccc tgaccttaac cttgtgaaag ggaggggtgg     60

tgctcttctt cgtgagaaga tggttgaggc agcatcggac aagtttattg ttattgttga    120

cgagacaaaa ctagttgatg ggttaggagg tagtggtcta gccatgccag tggaagttgt    180

gcagttctgc tggaagtaca accttgtaag attgcaggaa ctgtttaagg aggaaggagt    240

cgaggcaaag ctaaggtttg aaggcgacaa gccctatgtt actgacaact ncaactacat    300

cgtcgattta tacttcaaga cgccaatcaa ggatgcgttg gcagcaggac               350
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<210>       301
<211>       264
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101

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<212>        DNA
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<400>        301

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gttgaccctg acctcaacct tgtgaaaggg cggggtggtg ctcttcttcg tgagaagatg   120

gttgaggcag catcggacaa gtttattgtt attgttgacg agacaaaact agttgatggg   180

ttaggaggta gtggtctagc catgccagtg gaagttgtgc agttctgctg gaagtacaac   240

cttgtaagat tgcaggaact gttt                                          264


<210>        302
<211>        267
<212>        DNA
<213>        Zea mays

<400>        302

caaactgcgg ctgctgtaga tacgcgcgcc gtcactccaa ggtccaagcc tcccttgctc    60

ccgccaccgc ccctcaccat gggcagcgcc gccgcctctc cgcagccgtc tgggaatctg   120

acgcaggacg agctcaagcg cgtggcggcg caccgcgcgg tggagttcgt ggagcccggc   180

atgacgctgg gcctgggcac gggttccacg gccgcgcacg cgctggaccg tctgggctac   240

ctactccgcg tgggctcgct gtccggg                                       267


<210>        303
<211>        333
<212>        DNA
<213>        Zea mays

<400>        303

acgcccacgc gtccgtcccg ttcccgatcc tcatcacctc aaccccgcgc cgccccctcc    60

ccaccaccct cgccatggtc agcgccgccg cctcgccgcc gccgtccggg aagccgacgc   120

aggacgagct gaagcgcttg gcggcgcacc gcgcggtgga gctcgtggag cccggcatga   180

cgctgggcct gggcacgggc tccacggcgg cgcacgcgct ggaccgcctg ggcgacctcc   240

tccgcgcggg cgcgctgccg ggggtggccg gcgtgccgac ctcgctcaag acggatgcgc   300

aagcggcgcg cgtcggcatc ccgctgctcc cgc                                333
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102

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<210>      304
<211>      420
<212>      DNA
<213>      Zea mays

<400>      304

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acgctcgacg acaacccgct catcgacctc gccatcgacg gtgccgacga ggttgaccct  120

gacctcaacc ttgtgaaagg gcggggtggt gctcttcttc gtgagaagat ggttgaggca  180

gcatcggaca agtttattgt tattgttgac gagacaaaac tagttgatgg gttaggaggt  240

agtggtctag ccatgccagt ggaagttgtg cagttctgct ggaagtacaa ccttgtaaga  300

ttgcaggaac tgtttaagga ggaaggagtc gaggcaaagc taaggtttga aggcgacaag  360

ccctatgtta ctgacaactc aaactacatc gtcgatttat acttcaagac gccaatcaag  420


<210>      305
<211>      432
<212>      DNA
<213>      Zea mays

<400>      305

accttgtgaa agggcggggt ggtgctcttc ttcgtgagaa gatggttgag gcagcatcgg   60

acaagtttat tgttattgtt gacgagacaa aactagttga tgggttagga ggtagtggtc  120

tagccatgcc agtggaagtt gtgcagttct gctggaagta caaccttgta agattgcagg  180

aactgtttaa ggaggaagga gtcgaggcaa agctaaggtt tgaaggcgac aagccctatg  240

ttactgacaa ctcaaactac atcgtcgatt tatacttcaa gacgccaatc aaggatgcgt  300

tggcagcagg acaggaaatt gcagctctgg aaggagttgt tgaccatggg ttgttcttga  360

acatggcgag ttcagtgatc attgctggaa cggacggtgt cagtgtcaaa acgaagtgag  420

tttttgagtt gc                                                      432


<210>      306
<211>      461
<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
<400>      306
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caccaagcat gccgcnnatg gggtgntgtt nttcgtgaga agatgggtga ggcagcatng   60

gacaagttta ntgttattgt tgacgagaca aaactagttg atgggttagg aggtagtggt 120

ctagccatgc cagtggaagt tgtgcagttc tgctggaagt acaaccttgt aagattgcag 180

gaactgttta aggaggaagg agtcgaggca aagctaaggt ttgaaggcga caagccctat 240

gttactgaca actcaaacta catcgtcgat ttatacttca agacgccaat caaggatgcc 300

gttggcagca ggacaggaaa ttgcagctct ggaaggagtt gttgaccatg ggttgttctt 360

gaacatggcg agttcagtga tcattgctgg aacggacggt gtcagtgtca aaacgaaatg 420

agtttttgag ttgctttgtt ggttgngttg aaattttttt t   461


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<210>      307
<211>      249
<212>      DNA
<213>      Glycine max

<400>      307
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ctcgatctcg ccatcgacgg cgccgacgag gtcgaccccg acctcaacct cgtcaaaggc   60

cgcggcggcg ccctcctccg cgagaagatg gtcgaggccg cctccgacaa gttcgtcgtg 120

gtcgtcgacg acaccaagct cgtggacggc ctcggcggaa gcgggctggc catgccggtg 180

gaggtggtcc agttctgctg gaagtacaat ctggatcggc ttcaggagct tttcaaggaa 240

gaaggtgtg   249


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<210>      308
<211>      240
<212>      DNA
<213>      Glycine max

<400>      308
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gtcgaccccg acctcaacct cgtcaaaggc cgcggcggcg ccctcctccg cgagaagatg   60

gtcgaggccg cctccgacaa gttcgtcgtg gtcgtcgacg acaccaagct cgtggacggc 120

ctcgcggaag cgggctggcc atgccggtgg aggtggtcca gttctgctgg aagtacaatc 180

tggatcggct tcaggagctt ttcaaggaag aaggtgtgga agcaaaattg agattggagg 240


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<210>      309
<211>      262
<212>      DNA
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<213>   Glycine max

<400>   309

ggtcgaccccc gacctcaacc tcgtcaaagg ccgcggcggc gccctcctcc gcgagaagat   60

ggtcgaggcc gcctccgaca agttcgtcgt ggtcgtcgac gacaccaagc tcgtggacgg   120

cctcggcgga agcgggctgg ccatgccggt ggaggtggtc cagatctgct ggaagtacaa   180

tctggatcgg cttcaggagc ttttcaagga agaaggtgtg gaagcaaaat tgagattgga   240

ggagagtggg aaccctacgt ca   262

<210>   310
<211>   263
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   310

accacacatt caattttana cctctgggcg tggctagctt caacctttaa cattaacatg   60

gccattccct accccatatt catcgccacc gagaaagccg ccatggacgc cggcctcctc   120

caccctcct cccctccgt catcctcacc caagacgatt tgaagaaaat cgccgcctac   180

aaggccgtcg agtacgtgga gtccggcatg atcctcggcc tcggcaccgg ctccaccgcc   240

aagcatgccg tcgaccgcat cgg   263

<210>   311
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<400>   311

cttacattcc tttctccacc acacattcaa ttttgaacct ctgggactgg ctagcttcaa   60

cctttaacat taacatggcc attccctacc cccatttcat cgccaccgag aaagccgcca   120

tggacgccgg cctcctccac ccctcctccc cctccgtcat cctcacccaa gacgatttga   180

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gcaccggctc caccgccaag catgccgtcg accg   274

<210>   312
<211>   333

105

<212>   DNA
<213>   Zea mays

<400>   312

ctcacctccc ctccactccc tttctcccct gactcctgct ctataggatc ctccgcctcc   60

atcgcctctc gcgcctccaa tcgccttcgg cgcttcgtcc gtcctgctcc acctcttctt   120

acgccggttg accctgacct caaccttgtg aaagggcggg gtggtgctct tcttcgtgag   180

aagatggttg aggcagcatc ggacaagttt attgttattg ttgacgagac aaaactagtt   240

gatgggttag gaggtagtgg tctagccatg ccagtggaag ttgtgcagtt ctgctggaag   300

tacaaccttg taagattgca ggactgttaa gga   333

<210>   313
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<212>   DNA
<213>   Zea mays

<400>   313

ggatggtgct cgggctcggg acgggctcca cggccgcctt cgccgtcgcc gagatcggcg   60

cgctcctggc cgcgggcaag ctcgagaaga tcgtcggcgt gcccacatcc aagcgcacct   120

tcgagcaggc gcagtcgctc ggcatcccgc tctccacgct cgacgacaac ccgctcatcg   180

acctcgccat cgacggtgcc gacgaggttg accctgacct caaccttgtg aaagggcggg   240

gtggtgctct tcttcgtgag aagatggttg aggcagcatc ggacaagttt attgttattg   300

tt   302

<210>   314
<211>   244
<212>   DNA
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<400>   314

ctcaaggaca tcgtcggaat ccccacctcc acaaaaaccc acgaacaagc cctctccctc   60

gggatccccc tctccgatct cgacgcccac cccgccatcg atctcgccat cgacggcgcc   120

gacgaggtcg atcccttcct caacctcgtc aagggccgtg cggctccct cctccgagaa   180

aaaatggtcg aaggcgcatg caagaagttc atcgtcatcg ttgatgagtc caagctcgta   240

aact   244

106

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<210>      315
<211>      267
<212>      DNA
<213>      Glycine max

<400>      315

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agggccgtgg cggctccctc ctccgagaaa aaatggtcga aggcgcatgc aagaagttca   120

tcgtcatcgt tgatgagtcc aagctcgtaa actatttggg gggtagtggg ttggccatgc   180

ccgttgaggt tattaagttc tgttggaggt tcaccgcggc gaggttgcag aagcttcttg   240

aggaggctgg gtgcgttgcc aggctca                                        267


<210>      316
<211>      291
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      316

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cagggcaagc tcaaggacat cgtcggaatc cccacctcca caaaaaccca cgaacaagcc   180

ctctccctcg ggatccccct ctccgatctc gacgcccacc ccgccatcga tctcgccatc   240

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<210>      317
<211>      265
<212>      DNA
<213>      Glycine max

<400>      317

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cctcggcctc ggcaccggct ccactgccaa gcacgccgtc gaccgcatcg gcgagctcct   120

ccgccaagga aaactcaaag acatcgtcgg catccccacc tccaccaaaa cccacgacca   180

ggccctctcc ctcggcatcc ccctctccga tctcgactcc caccccaccg tcgatctcgc   240
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<210>        318
<211>        265
<212>        DNA
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<223>        unsure at all n locations
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gagactcgcc gccgacaagg ccgtggagtc cgtcaagagc ggcatggtcc tcggcctagg   180

caccggctcc actgctgcct tcgtcgtcgc caagcttggc gcccttctcg cctccggcca   240

actctccgac atcgtcggtg tcccc                                        265


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atgcgctaca accccaagaa cccctactgg ttcaaccgcg accgcttcgt cctctccgcc   180

ggccacggct gcatgctcca gtacgccctc ctccacctcg ccggttacga cagcgttaag   240

gaggaggact tgaagcagtt ctggcaatgg ggaagcagaa caccgggcca ccctgagaac   300

tttgagactc caggagttga                                              320


<210>        320
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ccgcgtcgtc tcgttcgtct cctgggaact ctttgatgag cagtcggatg agcacaagga   180
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108

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aacgttgcac aataaggtat cagaccaggg ctgtgaacag cgatgccatt cgaaatggca   120

cccatagcat gctctcgcac accgaagcga atgtttctct cttcaggagt atccctctgg   180

atttctccaa acttcttaag cagtgtcatg tttgacgttg cgagatccga actacctcca   240

agaaatccag gtattacttt ggcaagtgca ttcaag   276

<210>   322
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<400>   322

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agtcactgga gccgccacac acccgaaggt gctgcacttg aggctgattg gaacgctatg   120

tttgcagagt acgagaagaa gtatgcagat gatgcagcaa ccttgaaaag tatcatcacg   180

ggggagttac ccactggctg ggttgatgct cttcctaaat acactccaga gagcccagga   240

gatgccacca ggaacctctc ccagcagtgc ctgaacgcgc ttgctaatgt tg   292

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<212>   DNA
<213>   Zea mays

<400>   323

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cgacacattc tttgtaccag aggacgtcaa gagtcactgg agccgccaca cacccgaagg   120

tgctgcactt gaggctgatt ggaacgctaa gtttgcagag tacgagaaga agtatgcaga   180

tgatgcagca accttgaaaa gtatcatcac ggggggagtta cccactggct gggttgatgc   240

109

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    <212>      DNA
    <213>      Zea mays

    <400>      324

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    gttacccact ggctgggttg atgctcttcc taaatacact ccagagagcc caggagatgc   120

    caccaggaac ctctcccagc agtgcctgaa cgcccttgct aatgttgtgc ctggtcttat   180

    cggaggcagt gctgatcttg catcctccaa catgactctg ctgaagatgt ttggtgactt   240

    ccagaaggat acagctgaag agcgcaatgt ccgcttcgga gtcag        285


    <210>      325
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    <212>      DNA
    <213>      Zea mays

    <400>      325

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    tgtttgcaga gtacgagaag aagtatgcag atgatgcagc aaccttgaaa agtatcatca   120

    cggggggagtt acccactggc tgggttgatg ctcttcctaa atacactcca gagagcccag   180

    gagatgccac caggaacctc tcccagcagt gcctgaacgc gcttgctaat gttgtgcctg   240

    gtcttattgg aggcagtgct gatcttgcat cctccaacat gactctgctg aagatg        296


    <210>      326
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    <212>      DNA
    <213>      Zea mays

    <400>      326

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    ctggtcttat tggaggcagt gctgatcttg catcctccaa catgactctg ctgaagatgt   120

    ttggtgactt ccagaaggat acagctgaag agcgcaatgt ccgctttgga gtcagagagc   180

    acggaatggg cgccatttgc acaggcattg ctctgcacag cccagggttt gttccgtact   240
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110

gtgctacagt ctttgtcttc actgtttaca tgagaggtgc catgaggatc tcg   293

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atcacggggg agttacccac tggctgggtt gatgctcttc ctaaatacac tccagagagc   180

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cctggtctta ttggaggcag tgctgatctt g   271

<210>   328
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<212>   DNA
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<400>   328

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ttggaggcag tgctgatctt gcatcctcca acatgactct gctgaagatg tttggagact   120

tccagaagga tacagctgaa gagcgcaatg tccgctttgg agtcagagag cacggaatgg   180

gcgccatttg caacggcatt gctctgcaca gcccagggtt tgttccgtac tgtgctacat   240

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ctaaatacac tccagagagc ccaggagatg ccaccaggaa cctctcccag cagtgcctga   120

acgcccttgc taatgttgtg cctggtctta tcggaggcag tgctgatctt gcatcctcca   180

acatgactct gctgaagatg tttggtgact tccagaagga tacagctgaa gagcgcaatg   240

111

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gcagtgctga tcttgcatcc tccaacatga ctctgctgaa gatgtttggt gacttccaga  180

aggatac                                                            187


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<212>     DNA
<213>     Zea mays

<400>     331

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ctgggttgat gctcttccta aatacactcc agagagccca ggagatgcca ccaggaacct  120

ctcccagcag tgcctgaacg cgcttgctaa tgttgtgcct ggtcttattg gaggcagtgc  180

tgatcttgca tcttccaaca tgactctgct gaagatgtt                         219


<210>     332
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<212>     DNA
<213>     Zea mays

<400>     332

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tgactcccag aaggatacac tgaagagcgc aatgtccgct ttggagtcag agagcacgga  120

atgggcgcca tttgcaacgg cattgctctg cacagcccag ggtttgttcc gtactgt      177


<210>     333
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<212>     DNA
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112

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aacgcccttg ctaatgttgt gcctggtctt atcggaggca gtgctgatct tgcatcctcc   180

aacatgactc tgctgaagat gtttggtgac ttccagaagg atacagctga agagcgccat   240

gtccgcttcg gagtcagaga g   261

<210>   334
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<213>   Zea mays

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gatctgggtt aagaatggga acaccggata tgatgacatc cgcgcaccat taaggaggcg   180

aaggcagtca ctgacaagcc cac   203

<210>   335
<211>   289
<212>   DNA
<213>   Zea mays

<400>   335

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gctctgcaca gcccagggtt tgttccgtac tgtgctacat tctttgtctt cactgattac   120

atgagaggtg ccatgaggat ctcggccctg tctgaagccg gagtcatcta tgtcatgacc   180

cacgactcta ttggtctcgg agaagatggc ccgacccatc agcccatcga gcacctggtg   240

agcttccgtg cgatgccgaa catactgatg ctccgccctg ctgatggca   289

<210>   336
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113

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agagcacgga atgggcgcca tttgcaacgg cattgctctg cacagcccag ggtttgttcc   120

gtactgtgct acattctttg tcttcactga ttacatgaga ggtgccatga ggatctcggc   180

cctgtctgaa gccggagtca tctatgtcat gacccacgac tctattggtc tcggagaaga   240

tggcccgacc catcagccca tcgagcacct ggtgagcttc cgtgcgatgc cgaacatact   300

gatgc   305

<210>   337
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<212>   DNA
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<400>   337

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tggtgagctt ccgtgcgatg ccgaacatac tgatgctccg ccctgctgat ggcaacgaga   180

ctgccggagc atacaaagtc gcggtcctca acaggaagag gccgtccatc ctcgctctct   240

ccaggcaaaa gctccctcac ctgcctggca cctcg   275

<210>   338
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<212>   DNA
<213>   Zea mays

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acgagactgc cggagcatac aaagtcgcgg tcctcaacag gaagaggccg tccatcctcg   120

ctctctccag gcaaaagctc cctcacctgc ctggcacctc gatcgagggc gtggagaagg   180

gcgggtacac catctctgac aactcgaccg gcaacaagcc tgacatcatt gtgatgggca   240

ccggctccga gctggagatc gcggccaagg ccgccgacga gctgagga   288

<210>   339
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<212>   DNA
<213>   Zea mays

<400>   339

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ccaggcaaaa gctccctcac ctgcctggca cctcgatcga gggcgtggag aagggcgggt   120

acaccatctc tgacaactcg accggcaaca agcctgacat cattgtgatg ggcaccggct   180

ccgagctgga gatcgcggcc aaggccgccg acgagctgag gaaggagggg aagacggtcc   240

gcgtcgtctc gttcgtctcc tgggaactct ttgatgagca   280

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<213>   Zea mays

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tcgcggtcct caacaggaag aggccgtcca tcctcgctct ctccaggcaa aagctccctc   180

acctgcctgg cacctcgatc gagggcgtgg agaagggcgg gtacaccatc tctgacactc   240

gaccggcaac aagcc   255

<210>   341
<211>   254
<212>   DNA
<213>   Zea mays

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catcgagcac ctggtgagct tccgtgcgat gccgaacata ctgatgctcc gccctgctga   120

tggcaacgag actgccggag catacaaagt cgcggtcctc aacaggaaga ggccgtccat   180

cctcgctctc tccaggcaaa agctccctca cctgcctggc acctcgatcg agggcgtgga   240

gaagggcggg taca   254

<210>   342
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ctcgttcgtc tcctgggaac tctttgatga gcagtcggat gagtacaagg agagcgtcct   120

ccctgccgcc gtcacagcga ggatcagcat cgaggccggg tccactctcg gctggcagaa   180

gtacgtcgga gcccagggca aggccattgg catcgacaag ttcggcgcga gtgctcctgc   240

cgggacgatc tacaaggagt acggcatcac cgt   273

<210>   343
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<212>   DNA
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cgagcacctg gtgagcttcc gtgcgatgcc gaacatactg atgctccgcc ctgctgatgg   120

caacgagact gccggagcat acaaagtcgc ggtcctcaac aggaagaggc cgtccatcct   180

cgctctctcc aggcaaaagc tccctcacct gcctggcacc tcgatcgacg gcgtggagaa   240

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cgagctgagg tcatgagggg aagacggtcc gcgtcgtctc gttcgtctcc tgggaactct   120

ttgatgagca gtcggatgag tacaaggaga gcgtcctccc tgccgccgtc acagcgagga   180

tcagcatcga ggccgggtcc actctcggct ggcagaagta cgtcggagcc caggcaagg   240

ccattggcat cgacaagttc ggcgcgagtg ctcctg   276

<210>   345
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116

<212> DNA
<213> Zea mays

<400>   345

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gatcagcatc gaggccgggt ccactctcgg ctggcagaag tacgtcggag cccagggcaa   180

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cggcatcacc gtggagagca tcattgcagc tgccaagagc ttttaagagc taacaacggt   300

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<211>   316
<212>   DNA
<213>   Zea mays

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cgtgcgatgc cgaacatact gatgctccgc cctgctgatg gcaacgagac tgccggagca   180

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ctccctcacc tgcctggcac ctcgatcgag ggcgtggaga agggcgggta caccatctct   300

gacaactcga ccggca   316

<210>   347
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gatcagcatc gaggccgggt ccactcttgg ctggcagaag tacgtcggag cccagggcaa   120

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cggcatcacc gtggagagca tcattgcagc tgccaagagc ttttaagagc taacaacggt   240

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117

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<212>   DNA
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gctggcagaa gtacgtcgga gcccagggca aggccattgg catcgacaag ttcggcgcga   120

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gc   242

<210>   349
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<212>   DNA
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<400>   349

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ccctcacctg cctggcacct cgatcgaggg cgtggagaag ggcgggtaca ccatctctga   120

caactcgacc ggcaacaagc ctgacatcat tgtgatgggc accggctccg agctggagat   180

cgcggccaag gccgccgacg agctgaggaa ggagggaag acggtccgcg tcgtctcgtt   240

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<210>   350
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<212>   DNA
<213>   Zea mays

<400>   350

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gttcggcgcg agtgctcctg ccgggacgat ctacaaggag tacggcatca ccgtggagag   120

catcattgca gctgccaaga gcctttaaga gctaacaacg gtctggagtt tttcttattg   180

tcgtcgttga tgccaaagga acactgtacc tagaggacat cctatgcctc ggagcttgga   240

ataatgatga tggagggagc ggaag   265

118

<210> 351
<211> 336
<212> DNA
<213> Zea mays

<400> 351

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catccgcgca ccattaagga ggcgaaggca gttactgaca agcccacctt gatcaaggtg   120

actaccacga tcggttttgg atctcccaac aaggccaact catacagtgt tcatggaagt   180

gcactgggtg ccaaataggt tgaagcaacc aggcagaacc ttggatggcc ctatgacaca   240

ttctttgtac cagaggacgt caagagtcac tggagccgcc acacacccga aggtgctgca   300

cttgaggctg attggaacgc taagtttgca gagtac   336

<210> 352
<211> 275
<212> DNA
<213> Zea mays

<400> 352

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gatatgatga catccgcaca ccattaagga ggcgaaggca gttactgaca agcccacctt   120

gatcaaggtg actaccacat cggttttgga tctcccaaca aggccaactc atacagtgtt   180

tatggaagtg cactgggtgc caaagaggtt gaagcaacca ggcagaacct tggatggccc   240

tatgacacat tctctgtacc agaggacgtc aagag   275

<210> 353
<211> 286
<212> DNA
<213> Zea mays

<400> 353

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cttgatcaag gtgactacca cgatcggttt tggatctccc aacaaggcca actcatacag   120

tgttcatgga agtgcactgg gtgccaaaga ggttgaagca accaggcaga accttggatg   180

gccctatgac acattctttg taccagagga cgtcaagagt cactggagcc gccacacacc   240

cgaacgtgct gcacttgagg ctgattggaa cgctaagttt gcagag   286

119

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<212>      DNA
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ccattaagga ggcgaaggca gttactgaca agcccacctt gatcaaggtg actaccacga   120

tcggtttttgg atctcccaac aaggccaact catacagtgt tcatggaagt gcactgggtg   180

ccaaagaggt tgaagcaacc aggcagaacc ttggatggcc ctatgacaca ttctttgtac   240

cagaggacg                                                          249


<210>      355
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<212>      DNA
<213>      Zea mays

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ctgacaactc gaccggcaac aagcctgacc tcattgtgat gggcaccggc tccgagctgg   120

agatcgcggc caaggccgcc gacgagctga ggaaggaggg caagacggtc cgcgtcgtct   180

cgttcgtctc ctgggaactc tttgatgagc agtcggatga gtacaaggag agcgtcctcc   240

ctgctgccgt cacagcgagg atcagcatcg aggccgggtc cactcttggc tggcagaagt   300

acgtcggagc ccagggcaag gccattggca tcgacaagtt cggcgcgagt gctcctgccg   360

ggacgatcta caaggagtac ggcatcaccg tggagagcat cattgcagct gccaagaagc   420

ttt                                                                 423


<210>      356
<211>      385
<212>      DNA
<213>      Zea mays

<400>      356

caaccggcac caagcctgac atcattgggt tgggcaccgg ctccgagctg gagatcgcgg    60

gcaatgcggc cgacgagctg aggaaggagg ggaagacggt ccgcgtcgtc tcgttcgtct   120
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120

cctgggaact ctttgatgag cagtcggatg agtacaagga gagcgtcctc cctgccgacg   180

tcacagcgag gatcagcatc gaggccgggt ccactctcgg ctggcagaag tacgtcggag   240

cccaaggcaa ggccattggc atcgacaagt tcggcgcgag tgctcctgcc gggacgatct   300

acaaggagta cggcatcacc gtggagagca tcattgcaac tgccaagagc ttttaagagc   360

taacaacggt ctgggagttt ttttt   385

<210>   357
<211>   279
<212>   DNA
<213>   Glycine max

<400>   357

atgctaagtt tgctgagtat gaaaagaaat acaaggagga agctgcagaa ttgaaatcta   60

ttatcaatgg tgaattccct gctggttggg agaaagcact tccgacatac actccagaga   120

gcccagcgga tgccaccaga aacctgtctc aaacaaacct taatgccctt gcaaaggttc   180

ttcccggtct gcttggtggc agtgcagatc ttgcttcttc caacatgacc ttgctcaaaa   240

tgttcgggga cttccagaag gatactccag cagagcgta   279

<210>   358
<211>   246
<212>   DNA
<213>   Glycine max

<400>   358

ccttgctcaa aatgttcggg gacttccaaa aggatactcc agcagagcgt aatgttagat   60

tcggtgttag agaacacgga atgggagcta tctgcaacgg cattgctctt cacagccctg   120

gactgattcc atattgtgca accttctttg tattcactga ctacatgaga ggtgccataa   180

ggctttctgc gctgtctgag gctggggtta tttatgtcat gacccatgat tcaataggac   240

ttggag   246

<210>   359
<211>   220
<212>   DNA
<213>   Glycine max

<400>   359

caataaccag tgagagtcac aatcaaatag tagggaatgg gttaatcctt ggaacagggc 60

tgattccata ttgtgcaacc ttctttgtat tcactgacta catgagaggt gccataaggc 120

tttctgcgct gtctgaggct ggggttattt atgtcatgac ccatgattca ataggacttg 180

gagaagatgg gccaacccac cagcctattg agcacctagc 220

<210> 360
<211> 263
<212> DNA
<213> Glycine max

<400> 360

cagaaacctg tctcaaacaa accttaatgc ccttgcaaag gttcttcccg gtctgcttgg 60

tggcagtgca gatcttgctt cttccaacat gaccttgctc aaaatgttcg gggacttcca 120

aaaggatact ccagcagagc gtaatgttag attcggtgtt agagaacacg gaatgggagc 180

tatctgcaat ggcattgctc ttcacagccc tggactgatt ccatattgtg caaccttctt 240

tgtattcact gactacatga gag 263

<210> 361
<211> 308
<212> DNA
<213> Glycine max

<400> 361

tccttcccat cattctctgg cctcaagtca cattctacat gcaaagcagc agcagccacg 60

tcctcgcgta gaaggggtgc ttgtccatcc accaacgttg ttcgagccgc tgcggttgag 120

acactcgacc aaaccaccga ggtttctctg gtggagaaat ccgtcaacac cattcggttt 180

ttggccattg atgcagttga gaaggccaac tctggtcacc ctggtctccc catggggtgt 240

gctccaatgg gtcacattct ctacgatgag ataatgaggt acaatcctaa gaaccccgtt 300

ggttcaac 308

<210> 362
<211> 263
<212> DNA
<213> Glycine max

<400> 362

122

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tgctgtttca gccagagtta gcattgaggc aggatcaaca tttgggtggg agaaaattgt    60

tggagcaaaa gggaaaagca ataggcattg atcgttttgg agctagtgct ccagctggaa   120

gaatatacaa agaatttggt atcactaagg aagctgttgt tgctgcagct aaagagctta   180

tctagaactt ttgatttttt ttgccttctg gttttggttg agagcattcc atgtcatgaa   240

taagaaaaag gttaaatatc ctt                                           263
```

<210>   363
<211>   332
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   363

```
aaccattggt tatggttctc ctaacaaggc taactcctac agtgtgcatg gaagtgcact    60

gggtgccaaa gaagttgang ccacaaggca gaaccttgga tggtcacatg agccattcca   120

cgtgcctgag gatgtcaaaa agcattggag tcgccacacc cctgagggtg ctgcacttga   180

agctgaatgg aatgctaagt ttgctgagta tgaaaagaat acaaggagga agctgcagaa   240

ttgaaatcta ttatcaatgg tgaattccct gctggttggg agaaagcact tccgacatac   300

actccagaga gcccacgggt gccaccagaa ac                                 332
```

<210>   364
<211>   247
<212>   DNA
<213>   Glycine max

<400>   364

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aaccattggt tatggttctc ctaacaaggc taactcctac agtgtgcatg gaagtgcact    60

gggtgccaaa gaagttgatg ccacaaggca gaaccttgga tggtcacatg agccattcca   120

cgtgcctgag gatgtcaaaa agcattggag tcgccacacc cctgagggtg ctgcacttga   180

agctgaatgg aatgctaagt ttgctgagta tgaaaagaaa tacaaggagg aagctgcaga   240

attgaaa                                                             247
```

<210>   365
<211>   238
<212>   DNA

123
```

<213>   Glycine max

<400>   365

caaggctaac tcctacagtg tgcatggaag tgcactgggt gccaaagaag ttgatgccac   60

aaggcagaac cttggatggt cacatgagcc attccacgtg cctgaggatg tcaaaaagca   120

ttggagtcgc cacacccctg agggtgctgc acttgaagct gaatggaatg ctaagtttgc   180

tgagtatgaa aagaaataca aggaggaagc tgcagaattg aaatctatta tcaatggt   238

<210>   366
<211>   253
<212>   DNA
<213>   Glycine max

<400>   366

gggtgccaaa gaagttgatg ccacaaggca gaaccttgga tggtcacatg agccattcca   60

cgtgcctgag gatgtcaaaa agcattggag tcgccacacc cctgagggtg ctgcacttga   120

agctgagtgg aatgctaagt ttgctgagta tgaaaagaaa tacaaggagg aagctgcaga   180

attgaaatct attatcaatg gtgaattccc tgctggttgg gagaaagcac ttccgacata   240

cactccagag agc   253

<210>   367
<211>   171
<212>   DNA
<213>   Glycine max

<400>   367

gttctcctaa caaggctaac tcctacagtg tgcatggaag tgcactgggt gccaaagaag   60

ttgatgccac aaggcagaac cttggatggt cacatgagcc attccacgtg cctgaggatg   120

tcaaaaagca ttggagtcgc cacacccctg agggtgctgc acttgaagct g   171

<210>   368
<211>   277
<212>   DNA
<213>   Glycine max

<400>   368

atacgagcct ttccatgtgc cagaagatgt taaaaagcat tggagtcgcc ataccctga   60

124

gggtgctaaa cttgaagctg agtggaatgc caagtttgca gaatatgaga agaaatacag   120

tgaggaagct gcagagctga aggctattat tactgtgaat taccagctgg ttgggagaaa   180

gcacttccga catacactcc agaaagccct gctgatgcta caagaaatct gtctcagcaa   240

aatctaaatg cccttgttaa ggttcttcct ggtctac   277

<210>   369
<211>   268
<212>   DNA
<213>   Glycine max

<400>   369

gctacaagga agaatcttgg atggccatac gagcctttcc atgtgccaga agatgtcaag   60

aagcattgga gtcgccatac acctgagggt gctaaacttg aagctgagtg gaatgccaag   120

tttgtggaat atgagaagca atacagtgag gaagctgcag agctgaaggc tattattact   180

ggcgaattac cagcaagttg ggagaaagca cttccgacat acacaccaga aagccctgct   240

gatgctacaa gaaatctgtc tcagcaaa   268

<210>   370
<211>   258
<212>   DNA
<213>   Glycine max

<400>   370

taaagaagca aaggctgtca aagacaaacc cactttgatc aaggtaacca ctaccattgg   60

atttggttct ccaaacaagg ctaattccta cagtgttcat gggagtgcat taggtgctaa   120

agaagtggat gctacaagga agaatcttgg atggccatac gagcctttcc atgtgccaga   180

agatgtcaag aagcattgga gtcgccatac acctgagggt gctaaacttg aagctgagtg   240

gaatgccaag tttgtgga   258

<210>   371
<211>   247
<212>   DNA
<213>   Glycine max

<400>   371

gccatacccc tgagggtgct aaacttgaag ctgagtggaa tgccaagttt gcagaatatg   60

125

agaagaaata cagtgaggaa gctgcagagc tgaaggctat tattactggt gaattaccag   120

ctggttggga gaaagcactt ccgacataca ctccagaaag ccctgctgat gctacaagaa   180

atctgtctca gcaaaatcta aatgcccttg ttaaggttct tcctggtcta cttggtggca   240

gtgcaga   247


```
<210>      372
<211>      264
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      372
```

ggagtcgcca tacacctgag ggtgctaaac ttgaagctga gtggtntgcc aagtttgtgg   60

aatatgagaa gcaatacagt gaggaagctg cagagctgaa ggctattatt actggcgaat   120

taccagctgg ttgggagaaa cacttccgac atacacacca gaaagccctg ctgatgctac   180

aagaaatctg tctcagcaaa atctaaatgc ccttgttaag gttcttcctg gtctacttgg   240

tggtagtgca gatcttgcct cttc   264


```
<210>      373
<211>      245
<212>      DNA
<213>      Glycine max

<400>      373
```

gtggaatgcg aagtttgcag aatatgagaa gacatacagt gaggaagctg cagagctgaa   60

ggctattatt actggtgaat taccagctgg ttgggagaaa gcacttccga catacactcc   120

agaaagccct gctgatgcta caagaaatct gtctcagcaa aatctaaatg cccttgttaa   180

ggttcttcct ggtctacttg gtggcagtgc agatcttgcc tcttccaaca tgaccttgtt   240

gaaat   245


```
<210>      374
<211>      242
<212>      DNA
<213>      Glycine max

<400>      374
```

tggaatgcca agtttgcaga atatgagaag aaatacagtg aggaagctgc agagctgaag   60

```
gctattatta ctggtgaatt accagctggt tgggagaaag cacttccgac atacactcca    120

gaaagccctg ctgatgctac aagaaatctg tctcagcaaa atctaaatgc ccttgttaag    180

gttcttcctg gtctacttgg tggcagtgca gatcttgcct cttccaacat gaccttgttg    240

aa                                                                   242


<210>        375
<211>        246
<212>        DNA
<213>        Glycine max

<400>        375

gcagaatatg agaagaaata cagtgaggaa gctgcagagc tgaaggctat tattactggt     60

gaattaccag ctggttggga gaaagcactt ccgacataca ctccagaaag ccctgctgat    120

gctacaagaa atctgtctca gcaaaatcta aatgcccttg ttaaggttct tcctggtcta    180

cttggtggca gtgcagatct tgcctcttcc aacatgacct tgttgaaatc atacggagat    240

ttccaa                                                               246


<210>        376
<211>        236
<212>        DNA
<213>        Glycine max

<400>        376

ggatgctaca aggaagaatc ttggatggcc atacgagcct ttccatgtgc cagaagatgt     60

caagaagcat tggagtcgcc atacacctga gggtgctaaa cttgaagctg agtggaatgc    120

caagtttgtg gaatatgaga agcaatacag tgaggaagct gcagagctga aggctattat    180

tactggcgaa ttaccagctg gttgggagaa agcacttccg acatacacac cagaaa        236


<210>        377
<211>        253
<212>        DNA
<213>        Glycine max

<400>        377

attggagtcg ccataccct gagggtgcta aacttgaagc tgagtggaat gccaagtttg     60

cagaatatga gaagaaatac agtgaggaag ctgcagagct gaaggctatt attactggtg    120
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127

aattaccagc tggttgggag aaagcacttc cgacatacac tccagaaagc cctgctgatg   180

ctacaagaaa tctgtctcag caaaatctaa atgccctttt aaggttcttc ctggtctact   240

tggtggcagt gca   253

<210>   378
<211>   250
<212>   DNA
<213>   Glycine max

<400>   378

acagtgttca tgggagtgcg ttaggtgcta aagaagtgga tgctacaagg tagaatctgg   60

gatggccata cgagcctttc catgtgccag aacgtgtcaa gaagcattgg agtcgccata   120

cacctgaggg tgctaaactt gaagctgagt ggaatgccaa gtttgtggaa tatgagaagc   180

aatacagtga ggaagctgca gagctgaagg ctattattac tggcgaatta ccagctggtt   240

gggagaaagc   250

<210>   379
<211>   268
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   379

aaacaaggct aattcctaca gtgttcatng gagtncatta ggtgctaaag aagncgatgc   60

tacaaggnag aatcttggat ggccatacga gcctttccat gtgccagang atgtcaagaa   120

gcattggagt cgccatacac ctgagggtgc taaacttgaa gctgagtgga atgccaagtt   180

tgtggaatat gagaagcaat acagtgaggn agctgcagag tgaaggctat tattactggc   240

gaattaccag ctggttggna nanancct   268

<210>   380
<211>   248
<212>   DNA
<213>   Glycine max

<400>   380

tgctaaagaa gtggatgcta caaggaagaa tcttggatgg ccatacgagc ctttccatgt   60

gccaacagat gtcaagaagc attggagtcg ccatacacct gagggtgcta aacttgaagc 120

tgagtggaat gccaagtttg tggaatatga gaagcaatac agtgaggaag ctgcagagct 180

gaaggctatt attactggcg aattaccagc tggttgggag aacgcacttc cgacatacac 240

accagaaa   248

<210>   381
<211>   167
<212>   DNA
<213>   Glycine max

<400>   381

tgcacttccg atctacacac cagatagccc tgctgatgct acaagaaatc tgtctcagca   60

aaatctaaat gcccttgtta aggttcttcc tggtctactt ggtggtagtg cagatcttgc 120

ctcttccaac atgaccttat tggaatcgta tggggatttc caaaaga   167

<210>   382
<211>   173
<212>   DNA
<213>   Glycine max

<400>   382

atgggagtgc attaggtgct aaagaagtgg atgctacaag gaagaatctt ggatggccat   60

acgagccttt ccatgtgcca gaagatgtac aagagcattg gagtcgccat acacctgagg 120

gtgctaaact tgaagctagt ggaatgccaa gtttgtggaa tatgagaagc aat   173

<210>   383
<211>   298
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   383

ttggatttgg ttctccaaac aagggctaat tcctacagtg ttcatgggag tgcattaggt   60

gctaaaagaa gtngatgcta caaggaagaa tcttggatgg ccatacgagc ctttccatgt 120

gccagaagat gtcaagaagc attggagtcg ccatacactg agggtgctaa acttgaagct 180

gagtggaatg ccaagtttgt ggaatatgag aagcaataca gtgaggaagc tgcagagctg 240

aaggctatta tactggcgat taccagctgg ttgggagaaa gcattccgac atacacac   298

129

```
<210>      384
<211>      273
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      384

gttagatttg gtgttagtga acatggaatg ggagcaatct gtaatggtat tgctcttcat   60

agccccggat tcattccata ctgtgcaact ttctttgtct tcactgacta catgagagct  120

gccataagga tttctgcact gtgtgaagct ggagttatnc nagtgatgac tcatgattcg  180

attggacttg gagaggatgg accaactcat cagccaatag agcacttggc aagcttcagg  240

gcaatgccaa acatttgatg cttcgtccag ctg                               273


<210>      385
<211>      295
<212>      DNA
<213>      Glycine max

<400>      385

gttaggtttg gtgttagaga acatggattg ggagcaatct gtaacggtat tgctcttcat   60

agttccggat tcattccata ctgtgcaact ttctttgtct tcactgacta tatgagagct  120

gccataagga tttctgcact gtgtcgggct ggagttattt atgtgatgac tcatcattcg  180

attggacttg gagaggatgg accaactcat cagccaatag agtatttggc aagcttcagg  240

gcaatgcctc acactttgat gcttcgtcca gctgatgtat atgaactgct ggatc        295


<210>      386
<211>      260
<212>      DNA
<213>      Glycine max

<400>      386

gcaaaatcta aatgcccttg ttaaggttct tcctggtcta cttggtggta gtgcagatct   60

tgcctcttcc aacatgacct tattgaaatc gtatggggat ttccaaaaga atactcccga  120

agagcgcaat gttaggtttg gtgttagaga acatggaatg ggagcaatct gtaacggtat  180

tgctcttcat agccccggat tcattccata ctgtgcaact ttctttgtct tcactgacta  240
```

```
tatgagagct tccataagga                                              260
```

```
<210>        387
<211>        249
<212>        DNA
<213>        Glycine max

<400>        387

gcctcttcca acatgacctt gttgaaatca tacggagatt tccaaaagaa tactcccgaa    60

gagcgcaatg ttagatttgg tgttagagaa catggaatgg gagcaatctg taatggtatt   120

gctcttcata gccccggatt cattccatac tgtgcaactt tctttgtctt cactgactac   180

atgagagctg ccataaggat ttctgcactg tgtgaagctg gagttattta tgtgatgact   240

catgattcg                                                          249
```

```
<210>        388
<211>        252
<212>        DNA
<213>        Glycine max

<400>        388

gggatttcca aaagaatact cccgaagagc gcaatgttag gtttggtgtt agagaacatg    60

gaatgggagc aatctgtaac ggtattgctc ttcatagccc cggattcatt ccatactgtg   120

caactttctt tgtcttcact gactatatga gagctgccat aaggatttct gcactgtgtg   180

aagctggagt tatttatgtg atgactcatg attcgattgg acttggagag gatggaccaa   240

ctcatcagcc aa                                                      252
```

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<210>        389
<211>        255
<212>        DNA
<213>        Glycine max

<400>        389

agcagatctt gcctcttcca acatgacctt attgaaatcg tatggggatt tccaaaagaa    60

tactcccgaa gagcgcaatg ttaggtttgg tgttagagaa catggaatgg gagcaatctg   120

taacggtatt gctcttcata gccccggatt cattccatac tgtgcaactt tctttgtctt   180

cactgactat atgagagctg ccataaggat ttctgcactg tgtgaagctg gagttattta   240
```

tgtgatgact catga   255

<210>   390
<211>   260
<212>   DNA
<213>   Glycine max

<400>   390

gggagcaatc tgtaatggta ttgctcttca tagccccgga ttcattccat actgtgcaac   60

ttttttttgtc ttcactgact acatgagagc tgccataagg atttctgcac tgtgtgaagc   120

tggagttatt tatgtgatga ctcatgattc gattggactt ggagaggatg gaccaactca   180

tcagccaata gagcacttgg caagcttcag ggcaatgcca aacactttga tgcttcgtcc   240

agctgatggt aatgaaactg   260

<210>   391
<211>   238
<212>   DNA
<213>   Glycine max

<400>   391

ccggattcat tccatactgt gcaactttct ttgtcttcac tgactatatg agagctgcca   60

taaggatttc tgcactgtgt gaagctggag ttatttatgt gatgactcat gattcgattg   120

gacttggaga ggatggacca actcatcagc caatagagca tttggcaagc ttcagggcaa   180

tgccaaacac tttgatgctt cgtccagctg atggtaatga aactgctgga tcatacaa   238

<210>   392
<211>   248
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   392

gcaaaatcta aatgcccttg ttaaggttct tcctggtcta cttggtgnnc gtgcagatct   60

tgcctcttcc aacanngacc ttgttgaaat catacggaga tttccaaaag aatactcccg   120

aagagcgcaa tgttagattt ggtgttagag aacatggaat gggagcaatc tgtaatggta   180

ttgcncttca tagccccgga ttcatccata ctgtgcaact tttnttgtct tcatggacta   240

catgagag   248

```
<210>      393
<211>      167
<212>      DNA
<213>      Glycine max

<400>      393

catgacctta ttgaaatcgt attgggattt ccaaaagact actcccgaag agcgcaatgt    60

taggtttggt gttagagaac atggaatggg agcaatctgt aacggtattg ctcttcatag   120

acccggattc attccatact gtgcaacttt ctttgtcttc actgact                 167


<210>      394
<211>      91
<212>      DNA
<213>      Glycine max

<400>      394

gactacatga gagctgccat aaggatttct gcactgtgtg aaagctggag ttatttatgt    60

gatgactcat ggattcgatt ggacttggag a                                   91


<210>      395
<211>      288
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      395

tgaattccga caatggggga gcaggactcc tggacatcct gagaactttg agacagttgg    60

aattgaagtg actacaggtc ctcttggtca gggcattgcc aatgctgttg ggttagcact   120

agctgagaaa cacttggctg cacgatttaa caagcctgac aatgagattg ttgaccatta   180

cacatatgtt atattgggtg atggttgtca aatggaggga atttcaaatg aagcatgctc   240

acttgccggt cactggggtc tagggaagct tatngcttta atgatgac                288


<210>      396
<211>      262
<212>      DNA
<213>      Glycine max

<400>      396
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caagacctta aggaattccg acaatgggga agcagaactc ctggacatcc tgagaacttt    60

gagacccttg gagttgaagt gaccacaggt cctcttggtc agggcattgc caatgctgtt   120

ggattagcac tagctgagaa gcacttggct gcacgattta acaagcctga caatgagatt   180

gttgaccatt acacatatgt tatattgggt gatggttgtc aaatggaggg aatttcaaat   240

gaagcatgct cacttgccgg tc                                           262


<210>        397
<211>        279
<212>        DNA
<213>        Glycine max

<223>        unsure at all n locations
<400>        397

cgcttggntc aaccntgacc gtttcgttct ctctgctgga tctggctgca tgctccaata    60

tgctctcctt canttgctg gctatnacac tgttcaggaa caagacctta aggaattccg   120

acaatgggga agcagaactc ctggacatcc tgagaacttt gagacccttg gagttgaagt   180

gaccacaggt cctcttggtc agggcattgc caatgctgtt ggattagcat agctgagaag   240

cacttggctg cacgattaac aagcctgaca atgagatgt                          279


<210>        398
<211>        254
<212>        DNA
<213>        Glycine max

<400>        398

tgacactgtt caggaacaag accttaagga attccgacaa tggggaagca gaactcctgg    60

acatcctgag aactttgaga cccttggagt tgaagtgacc acaggtcctc ttggtcaggg   120

cattgccaat gctgttggat tagcactagc tgagaagcac ttggctgcac gatttaacaa   180

gcctgacaat gagattgttg accattacac atatgttaat tgggtgatgg ttgtcaaatg   240

gagggaattt caaa                                                    254


<210>        399
<211>        264
<212>        DNA
<213>        Glycine max

<400>        399
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gttgaaaagg gtggttacac catttcggac aactccactg gcaacaagcc tgatgtcatt   60

ttgatcggaa ctggttcgga attggaaatc gctgccaaag ctgctgatga cctaaggaag  120

gaagggaagg ctgttagagt tgtttccctt gtttcttggg aacttttttga tgagcaatca  180

gaagcctaca aggagagtgt tttccctgct gctgtttcag ccagagttag cattgaggca  240

ggatcaacat ttgggtggga gaaa                                          264
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<210>   400
<211>   258
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   400

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gttgaaaagg gtggttacac catttcggac aactccactg gcaacaagcc tgatgtcatt   60

ttgatcggaa ctggttcgga attggaaatc gctgccaaag ctgctgatga cctaaggaag  120

gaagggaagg ctgttagagt tgtttccctt gtttcttggg aacttttttga tgagcaatca  180

gnagcctaca aggagagtgt tttccctgct gctgtttcag ccagagttag cattgaggca  240

ggatcaacat ttgggtgg                                                 258
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<210>   401
<211>   249
<212>   DNA
<213>   Glycine max

<400>   401

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gagttgaaaa gggtggttac accatttcgg acaactccac tggcaacaag cctgatgtca   60

ttttgatcgg aactggttcg gaattggaaa tcgctgccaa agctgctgat gacctaagga  120

aggaagggaa ggctgttaga gttgtttccc ttgtttcttg ggaacttttt gatgagcaat  180

cagaagccta caaggagagt gttttccctg ctgctgtttc agccagagtt agcattgagg  240

caggatcaa                                                           249
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<210>   402
<211>   273
<212>   DNA
<213>   Glycine max
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<400>        402

gagttgaaaa gggtggttac accatttcgg acaactccac tggcaacaag cctgatgtca    60

ttttgatcgg aactggttcg gaattggaaa tcgctgccaa agctgctgat gacctaagga   120

aggaagggaa ggctgttaga gttgtttccc ttgtttcttg ggactttttt gatgagcaat   180

cagaagccta caaggagagt gttttccctg ctgctgtttc agccagagtt agcattgagg   240

caggatcaac atttgggtgg gagaaaattg ttg                                273


<210>        403
<211>        256
<212>        DNA
<213>        Glycine max

<400>        403

cactcttctt cttcttcttc ttcttcactc tacaaccact aaactaagtg gttggttttg    60

gtttagtttc atttttttga agctcttaaa cttaaggctt aagccatggc atcctcatcc   120

tctctgcatc tatctcaggc ccttctggca cgtgctgtgt accttcatgg ctcttcttct   180

tctgaccgtg tctcactctc cttcccatca ttctctggcc tcaagtcaca ttctgcatgc   240

tccaatatgc tctcct                                                    256


<210>        404
<211>        233
<212>        DNA
<213>        Glycine max

<400>        404

ctaaactaag tggttggttt tggtttagtt tcattttttt gaagcgctta aacttaaggc    60

ttaagccatg gcatcctcat cctctctgca tctatctcag gcccttctgg cacgtgctgt   120

gtaccttcat ggctcttctt cttctgaccg tgtctcactc tccttcccat cattctctgg   180

cctcaagtca cattctacat gcaaagcagc agtagccacg tcctcgcgta gaa          233


<210>        405
<211>        247
<212>        DNA
<213>        Glycine max

<400>        405

136

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aactaagtgg ttggtttttgg tttagtttca ttttttttgaa gctcttaaac ttaaggctta    60

agccatggca tcctcatcct ctctgcatct atctcaggcc cttctggcac gtgctgtgta   120

ccttcatggc tcttcttctt ctgaccgtgt ctcactctcc ttcccatcat tctctggcct   180

caagtcacat tctacatgca aagcagcagc agccacgtcc tcgcgtagaa ggggtgcttg   240

tccatcc                                                            247
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<210>   406
<211>   243
<212>   DNA
<213>   Glycine max

<400>   406

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aaacactctt cttcttcttc ttcttcttca ctctacaacc actaaactaa gtggttggtt    60

ttggtttagt ttcattttttt tgaagctctt aaacttaagg cttaagccat ggcatcctca   120

tcctctctgc atctatctca ggcccttctg gcacgtgctg tgtaccttca tggctcttct   180

tcttctgacc gtgtctcact ctccttccca tcattctctg cctcaagtc acattctaca   240

tgc                                                                243
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<210>   407
<211>   215
<212>   DNA
<213>   Glycine max

<400>   407

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ttttggttta gtttcattgt tctgaagctc ttaaacttaa ggcttaagcc atggcatcct    60

catcctctct gcatctatct caggcccttc tggcacgtgc tgtgtacctt catggctctt   120

cttctctgac cgtgtctcac tctccttccc atcattctct ggcctcaagt cacattctac   180

atgcaaagca gcagcagcca cgtcctcgcg tagaa                             215
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<210>   408
<211>   276
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   408

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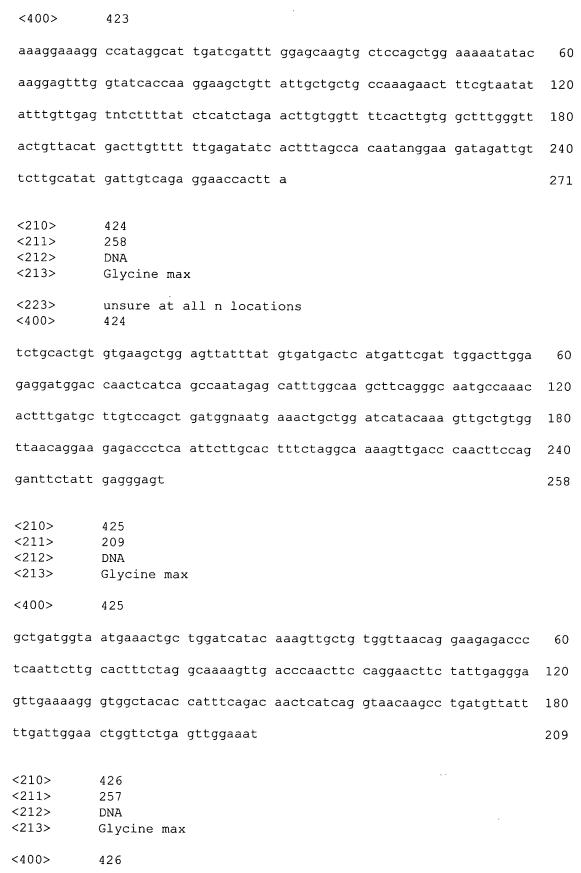tcttcttctt cactctacaa ccactannct aagtggttgg ttttggttta gtttcatttt    60
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137

tttgaagctc ttaaacttaa ggcttaagcc atggcatcct catcctctct gcatctatct   120

caggcccttc tggcacgtgc tgtgtacctt catggctctt cttcttctga ccgngtctca   180

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acgtcctcgc gtagaagggg tgcttgtcca tccacc   276

<210>   409
<211>   289
<212>   DNA
<213>   Glycine max

<400>   409

tcttcttctt cttcttcttc actctacaac cactaaacta agtggttggt tttggtttag   60

tttcattttt ttgaagctct aaacttaag gcttaagcca tggcatcctc atcctctctg   120

catctatctc aggcccttct ggcacgtgct gtgtaccttc atggctcttc ttcttctgac   180

cgtgtctcac tctccttccc atcattctct ggcctcaagt cacattctac atgcaaagca   240

gcagcagcca cgtcctcgcg tagaaggggt gcttgtccat ccaccaacg   289

<210>   410
<211>   221
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   410

tcttcttctt cactctacaa ccactaaact aagtggttgg ntttggttta gtttcatttt   60

tttgaagctc ttaaacttaa ggcttaagcc atggcatcct catcctctct gcatctatct   120

caggcccttc tggcacgtgc tgtgtacctt catggctctt cttcttctga ccgngtctca   180

ctctccttcc catcattctc tggcctcaag tcacattcta t   221

<210>   411
<211>   255
<212>   DNA
<213>   Glycine max

<400>   411

cttcttcttc ttcttcttct tcactctaca accactaaac taagtggttg gttttggttt   60

138

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agtttcattt ttttgaagct cttaaactta aggcttaagc catggcatcc tcatcctctc   120

tgcatctatc tcaggccctt ctggcacgtg ctgtgtacct tcatggctct tcttcttctg   180

accgtgtctc actctccttc ccatcattct ctggcctcaa gtcacattct acatgcaaag   240

cagcagcagc cacgt                                                     255


<210>      412
<211>      333
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      412

anattgtaga ccantanaca tatgtnatat tnggtgatgg ntgtcaaatg gagggantnt    60

caaatgaagc atgctcactt gccggtcact ggggtctagg gaagcttatn gcttnatatg   120

atgacaacca catttccatt gatggggaca ctgagattgc attcactgag aatgttgatc   180

aacgttttga ggcacttggg tggcatgtaa tttgggtgaa gaatggaaat actggatatg   240

atgaaattcg tgcagccatt aaggaagcaa aggctgtcaa agacgaaccc actatgatcc   300

aggtaaccac taccattgga ttggttctcc aaa                                 333


<210>      413
<211>      260
<212>      DNA
<213>      Glycine max

<400>      413

aacaagcctg acaatgagat tgttgaccat tacacatatg ttatattggg tgatggttgt    60

caaatggagg gaatttcaaa tgaagcttgc tcacttgccg gtcactgggg tctaggaaag   120

ctcattgctt tatatgatga caatcacatt tccattgatg gtgacactga gattgcattc   180

actgagaatg ttgatcagcg ttttgaagca cttggatggc atgtaatttg ggtgaagaat   240

ggaaatactg gatatgatga                                                260


<210>      414
<211>      288
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
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<400>   414

cacttggctg cacgatttaa caatcctgnc antgagattg ttgaccatta nacatatgtt   60

atattgggtg atggttgtca aatggaggga atttcaaatg aagcatgctc acttgccgnc   120

tcactggggt ctaggaagc ttattgcttt ntatgatgac aaccacattt ccattnctgg   180

ggacactgag attgcattca ctgagantgt tgatcaacgt ttgaggcact tgggtggcat   240

gtaatttggg tgaagaatgg anatactgga tatgatgaaa ttcgtgcg   288

<210>   415
<211>   242
<212>   DNA
<213>   Glycine max

<400>   415

gaatttcaaa tgaagcatgc tcacttgccg gtcactgggg tctagggaag cttattgctt   60

tatatgatga caaccacatt tccattgatg gggacactga gattgcattc actgagaatg   120

ttgatcaacg ttttgaggca cttgggtggc atgtaatttg ggtgaagaat ggaaatactg   180

gatatgatga aattcgtgca gccattaagg aagcaaaggc tgtcaaagac aaacccacta   240

tg   242

<210>   416
<211>   251
<212>   DNA
<213>   Glycine max

<400>   416

caaatggagg gaatttcaaa tgaagcatgc tcacttgccg gtcactgggg tctagggaag   60

cttattgctt tatatgatga caaccacatt tccattgatg gggacactga gattgcattc   120

actgagaatg tgatcaacgt tttgaggcac ttgagtggca tgtaatttgg gtgaagaatg   180

gaaatactgg atatgatgaa attcgtgcag ccattaagga agcaaaggct gtcaaagaca   240

cccactatga t   251

<210>   417
<211>   245
<212>   DNA
<213>   Glycine max

<400> 417

gcacgattta acaagcctga caatgagatt gttgaccatt acacatatgt tatattgggt   60

gatggttgtc aaatggaggg aatttcaaat gaagcatgct cacttgccgg tcactggggt   120

ctagggaagc ttattgcttt atatgatgac aaccacattt ccattgatgg ggacactgag   180

attgcattca ctgagaatgt tgatcaacgt tttgaggcac ttgggtggca tgtaatttgg   240

gtgaa   245

<210>   418
<211>   249
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   418

gttgatcang cgttttgnaa gcacttggat ggcatgtaat ttgggtgaag natggaaata   60

ctggatatga tgaaattgcg tgcagccatt aaagaagnaa aggctgtcaa agacaaaccc   120

actttgatca aggtanccac tagnattgga ttaggttctc caaacaaggc taattcncac   180

agtgttcatg ggncgtgcat taggtgctaa agaagtggat gctacnangn anaatnttgg   240

atggcnata   249

<210>   419
<211>   240
<212>   DNA
<213>   Glycine max

<400>   419

cattgatgca gttgagaagg ccaactctgg tcaccctggt ctccccatgg ggtgtgctct   60

aatgggctca cattctctac gatgagataa tgaggtacaa ttctaagaac cccgcttggt   120

tcaaccgtga cgtttcgttc tctctgctgg acatggctgc atgctccaat atgctctcct   180

tcaccttgct ggctatgaca ctgttcagga acaagacctt aaggaattcc gacaatgggg   240

<210>   420
<211>   283
<212>   DNA
<213>   Glycine max

<400>   420

141

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caagattgtt ggaagcaaag gaaaggccat aggcattgat cgatttggag caagtgctcc    60

agctggaaaa atatacaagg agtttggtat caccaaggaa gctgttattg ctgctgccaa   120

agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtggttttc   180

acttgtggct ttgggttact gttacatgac ttgttttttg agatatcact ttagccacaa   240

taaggaagat tagatgttct gcatatgatt gtcagaggaa cca                     283


<210>       421
<211>       259
<212>       DNA
<213>       Glycine max

<400>       421

caagattgtt ggaagcaaag gaaaggccat aggcattgat cgatttggag caagtgctcc    60

agctggaaaa atatacaagg agtttggtat caccaaggaa gctgttattg ctgctgccaa   120

agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtggttttc   180

acttgtggct ttgggttact gttacatgac ttgttttttg agatatcact ttagccacaa   240

taaggaagat tagattgtt                                                259


<210>       422
<211>       256
<212>       DNA
<213>       Glycine max

<400>       422

caagattgtt ggaagcaaag gaaaggccat aggcattgat cgatttggag caagtgctcc    60

agctggaaaa atatacaagg agtttggtat caccaaggaa gctgttattg ctgctgccaa   120

agaactttcg tagatatatt tgttgagttt cttttatctc atctagaact tgtggttttc   180

acttgtggct ttgggttact gttacatgac ttgttttttg agatatcact ttagccacaa   240

taaggaagat tagatt                                                   256


<210>       423
<211>       271
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
```

142

<400>   423

aaaggaaagg ccataggcat tgatcgattt ggagcaagtg ctccagctgg aaaaatatac   60

aaggagtttg gtatcaccaa ggaagctgtt attgctgctg ccaaagaact ttcgtaatat   120

atttgttgag tntcttttat ctcatctaga acttgtggtt ttcacttgtg ctttgggtt   180

actgttacat gacttgtttt ttgagatatc actttagcca caatanggaa gatagattgt   240

tcttgcatat gattgtcaga ggaaccactt a   271

<210>   424
<211>   258
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   424

tctgcactgt gtgaagctgg agttatttat gtgatgactc atgattcgat tggacttgga   60

gaggatggac caactcatca gccaatagag catttggcaa gcttcagggc aatgccaaac   120

actttgatgc ttgtccagct gatggnaatg aaactgctgg atcatacaaa gttgctgtgg   180

ttaacaggaa gagaccctca attcttgcac tttctaggca aaagttgacc caacttccag   240

ganttctatt gagggagt   258

<210>   425
<211>   209
<212>   DNA
<213>   Glycine max

<400>   425

gctgatggta atgaaactgc tggatcatac aaagttgctg tggttaacag gaagagaccc   60

tcaattcttg cactttctag gcaaaagttg acccaacttc caggaacttc tattgaggga   120

gttgaaaagg gtggctacac catttcagac aactcatcag gtaacaagcc tgatgttatt   180

ttgattggaa ctggttctga gttggaaat   209

<210>   426
<211>   257
<212>   DNA
<213>   Glycine max

<400>   426

cgaccaactc atcagccaat agagcatttg gcaagcttca gggcaatgcc aaacacttag   60

atgcttcgtc cagctgatgg taatgaaact gctggatcat acaaagttgc tgtggttaac   120

aggtagagac cctcaattct tgcactttct aggcaaaagt tgacccaact tccaggaact   180

tctattgagg gatttgaaaa gggtggctac accattctcg aacagctcat caggtaacaa   240

gccggatgtt attttga   257

<210>   427
<211>   246
<212>   DNA
<213>   Glycine max

<400>   427

gctgtggtta acaggaagag accctcaatt cttgcacttt ctaggcaaaa gttgacccaa   60

cttccaggaa cttctattga gggagttgaa aagggtggct acaccatttc agacaactca   120

tcaggtaaca agcctgatgt tattttgatt ggaactggtt ctgagttgga aattgctgct   180

gctgctgctg aggatctagg aaaggaagga aaagctgtta gagttgtttc ttttgttagc   240

tgggaa   246

<210>   428
<211>   168
<212>   DNA
<213>   Glycine max

<400>   428

gaccaactca tcagccaata gagcacttgg caagcttcag ggcaatgcca aacactttga   60

tgcttcgtcc agctgatggt aatgaaactg ctggatcata caaagttgct gtggttaaca   120

ggaagagacc ctcaattctt gcactttcta ggcaaaagtt gacccaac   168

<210>   429
<211>   168
<212>   DNA
<213>   Glycine max

<400>   429

aattcttgca ctttctaggc aaaagttgac ccaacttcca ggaacttcta ttgagggagt   60

tgaaaagggt ggctacacca tttcagacaa ctcatcaggt aacaagcctg atgttatttt   120

144

gattggaact ggttctgagt tggaaattgc tgctgctgct gctgagga   168

<210>   430
<211>   254
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   430

ctcatgattc gattggactt gggagaggat ggaccaacta catcagccaa tagagcattt   60

ngcaagcttc agggcaatgc caaacacttn cntgcttcgt ccagctatgg taatgaaact   120

gctggatcat acaaagttgc tgtggttaac aggaagagac cctcaattct tgcactttct   180

agncaaaagt tgacccaact tccaggaact tctattggag gtgaaaaggg tggctacacc   240

atttcagana actc   254

<210>   431
<211>   117
<212>   DNA
<213>   Glycine max

<400>   431

aattcttgca cttgctaggc aaaagttgac ccagcttcca ggaacttcta ttgagggagt   60

tgaaaagggt ggctacacca tttcagacaa ctcatcaggt aacaagcctg atgttat   117

<210>   432
<211>   263
<212>   DNA
<213>   Glycine max

<400>   432

atgagaggtg ccataaagct ttctgcgctg tctgaggctg gggttatttta atgtcatgac   60

ccatgattca ataggacttg agaagatgg gccaacccac cagcctattg agcacctagc   120

aagcttccgg gcaatgccaa acattttgat gcttcgtccc gccgacggta acgaaacagc   180

cggagcatac aaagtggccg tgctcaacag gaagagaccc tccattcttg ccctatccag   240

gcaaaaactg ccccagcttc ccg   263

<210>   433

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<211>      257
<212>      DNA
<213>      Glycine max

<400>      433

cattttgatg cttcgtcctg ccgacggtaa cgaaacagcc ggagcataca aagtggccgt    60

gctcaacagg aagagaccct ccattcttgc cctatccagg caaaaactgc cccagcttcc   120

cggaacttcc attgaaggag ttgaaaaggg tggttacacc atttcggaca actccactgg   180   .

caacaagcct aatgacattt ggaccggaac tggttcggaa ttggaaatcg ctgccaaagc   240

tgctgatgac ctaagga                                                  257


<210>      434
<211>      253
<212>      DNA
<213>      Glycine max

<400>      434

tcatgaccca tgattcaata ggacttggag aagatgggcc aacccaccag cctattgagc    60

acctagcaag cttccgggca atgccaaaca ttttgatgct cgtcccgcc gacggtaacg    120

aaacagccgg agcatacaaa gtggccgtgc tcaacaggaa gagaccctcc attcttgccc   180

tatccaggca aaaactgccc cagcttcccg gaacttccat tgaaggagtt gaaaagggtg   240

gttacaccat ttc                                                     253


<210>      435
<211>      134
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      435

ttggagaaga tgggccaacc caccagccta ttgagcacct agnnagcttc cgggcaatgc    60

caaacatttt gatgcttcgt cccgccgacg gtaacgaaac agccgnagca taccaagtgg   120

ccgtgtcaac aggg                                                     134


<210>      436
<211>      387
<212>      DNA
<213>      Glycine max
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146

<400> 436

cccacgcgtc cgcccacgcg tccgggtcac aacaaccatt ggttatggtt ctcctaacaa   60

ggctaactcc tacagtgtgc atggaagtgc actgggtgcc aaagaagttg atgccacaag   120

gcagaacctt ggatggtcac atgagccatt ccacgtgcct gaggatgtca aaaagcattg   180

gagtcgccac acccctgagg gtgctgcact tgaagctgaa tggaatgcta agtttgctga   240

gtatgaaaag aaatacaagg aggaagctgc agaattgaaa tctattatca atggtgaatt   300

ccctgctggt tgggagaaag cactttcgac atacactcca gagagcccag cggatgccac   360

cagaaacctg tctcaaacaa accttaa   387

<210>   437
<211>   316
<212>   DNA
<213>   Glycine max

<400>   437

ggggttattt atgtcatgac ccatgattca ataggacttg gagaagatgg gccaacccac   60

caccctattg agcacctagc aagcttccgg gcaatgccaa acattttgat gcttcgtccc   120

gccgacggta acgaaacagc cggagcatac aaagtggccg tgctcaacag gaagagaccc   180

tccattcttg ccctgtccag gcaaaaactg ccccagcttc ccggaacttc cattgaagga   240

gttgaaaagg gtggttacac catttcggac aactccactg gcaacaagcc tgatgtcatt   300

ttgatcggaa ctggtt   316

<210>   438
<211>   301
<212>   DNA
<213>   Zea mays

<400>   438

gtcatcttcc acgtctccaa gaccggcggc cacctcgggt ccagcctcgg cgtggtggag   60

ctcaccgtcg cgctgcacta cgtcttcaac gcgccgcagg accgcatcct ctgggacgtc   120

ggccaccagt cgtacccgca caagatcctg acggggcggc gcgacaagat gccgacgatg   180

cggcagacca acggcctggc gggcttcccc aagcgcgccg agagcgagta cgacagcttc   240

ggcacgggcc acagctccac caccatctcc gcggcgctcg ggatggcggt gggccgggac   300

147

<210> 439
<211> 265
<212> DNA
<213> Zea mays

<400> 439

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agggcgaccg ggtggcgctg ctggggtacg ggtcggcagt gcagtactgc ctgactgccg  120

cgtccctggt gcagcgccac ggcctcaagg tcaccgtcgc cgacgcgagg ttctgcaagc  180

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aggaaggctc catcggcggg ttcgg                                        265
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<210> 440
<211> 245
<212> DNA
<213> Zea mays

<400> 440

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atgacggccg ggcaggcgta cgaggccatg aacaacgccg ggtacctgga ctccgacatg  120

atcgtcatcc tcaacgacaa caagcaggtg tccttgccca cggcgacgct cgacgggccg  180

gtgccgcccg taggcgcgct cagcagcgac ctcagcaagc tgcagtcaag caggccgctc  240

aagga                                                              245
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<210> 441
<211> 156
<212> DNA
<213> Zea mays

<400> 441

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catgatcagc gggcccggct cctcgctctt cgaggagctc ggtctctact acatcggccc  120

cgtcgacggc cacaacatcg acgacctcat caccat                            156
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<210>   442
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<212>   DNA
<213>   Zea mays

<400>   442

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gagctcgccg ccgagcacga ggtgctgatc accgccgagg agggatccat cggcgggttc   120

ggctcccacg tcgcacacta cctcagcctg accggcctcc tggacgggcc cctcaaactg   180

agatccatgt tcctgccgga ccggtacatc gaccatggcg caccgcagga ccagatcgag   240

gattcagggc tgacgccgcg gcacatcgcc g   271

<210>   443
<211>   288
<212>   DNA
<213>   Zea mays

<400>   443

ccgacgcccg gttctgcaag ccgctggaca cggcgctgat ccgggagctc gccgccgagc   60

acgaggtgct gatcaccgcc gaggagggat ccatcggcgg gttcggctcc cacgtcgccc   120

actacctcag cctgaccggc ctcctggacg ggcccctcaa actgagatcc atgttcctgc   180

cggaccggta catcgaccat ggcgcaccgc aggaccagat cgatgaggca gggctgacgc   240

gcggcacatc gccgccaccg tgctgtccct gctggggagg ccattgga   288

<210>   444
<211>   340
<212>   DNA
<213>   Zea mays

<400>   444

aagagcacca agaccaccgg ccccgtcctc atccacgtcg tcaccgagaa gggccgcggc   60

tacccctacg ccgagcgagc cgccgacaag taccacggtg tcgccaagtt tgatccggcg   120

accgggaagc agttcaagtc ccccgccaag acgctgtcct acaccaacta cttcgccgag   180

gcgctcatcg ccgaggcggg ccaggacagc aagatcgtgg ccatccacgc ggccatgggc   240

ggcggcacgg ggctcaacta cttcctccgc cgcttcccga accggtgctt cgacgtcggg   300

atcgcggaca gcacgccgtc acgttcgggc cggctggctg   340

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<210>        445
<211>        245
<212>        DNA
<213>        Zea mays

<400>        445

gtaccacggt gtcgccaagt ttgatccggc gaccgggaag cagttcaagt cccccgccaa    60

gacgctgtcc tacaccaact acttcgccga ggcgctcatc gccgaggcgg agcaggacag   120

caagatcgtg gccatccacg cggccatggg cggcggcacg gggctcaact acttcctccg   180

ccgcttcccg agccggtgct tcgacgtcgg gatcgcggag cagcacgccg tcacgttcgc   240

ggccg                                                             245


<210>        446
<211>        298
<212>        DNA
<213>        Zea mays

<223>        unsure at all n locations
<400>        446

cgatctgcag aagctaccgg taaggttcgt catggacagg gccgggctgg tcggcgcgga    60

cgggccgacc cactgcgggg cgttcgacgt cgcgtacatg gcctgcctgc ccaacatggt   120

cgtcatggcc ccgtccgacg aggccgagct ctgccacatg gtcgccaccg ccgcggcaat   180

cgacgaccgc ccgtcctgct tccgctaccc gagaggcaac ggcgttggcg tcccgttgcc   240

gnccaactac aaaggcactc ccctcgaggt cgggcaaagc aggatcctgc tggagggc    298


<210>        447
<211>        333
<212>        DNA
<213>        Zea mays

<223>        unsure at all n locations
<400>        447

cagggccggg ctggtcggcg cggacgggcc gacccactgc ggggcgttcg acgtcgcgtg    60

catggcctgc ctgcccaaca tggtcgtcat ggccccgtcc gacgaggccg agctctgcca   120

catggtcgcc accgccgcgg caatcgacga ccgcccgtcc tgcttccgct acccgagagg   180

caacggcgtt ggcgtcccgt tgccgcccaa ctacaaaggc actcccctcg aggtcggcaa   240
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150

aggcaggatc ctgctggagg gcgacaccgg ggngctgctg gngtacgggt cgggagtgca   300

gnactggctg accgtcgcgt acctggtgca gcg   333

<210>   448
<211>   240
<212>   DNA
<213>   Glycine max

<400>   448

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cttgagtagc gctctcagta gattacaatc aaataggcct cttagagaat tgagagaggt   120

tgccaaggga gttcctaaac gaattggagg tcctatgcat gaattggctg caaaagttga   180

cgagtatgct cgtggcatga tcagtggttc tggatcatca cttttgaag agcttggact   240

<210>   449
<211>   309
<212>   DNA
<213>   Glycine max

<400>   449

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ttgcctactg ctactattga tggtcctgca actccaattg gagcccgcaa tagtgcctta   120

agcaaaattc aagcaagcac caaataccgc aaactgagag aagctgcgaa aggcatcaca   180

aagcagatag gaggaacaac acacaacttg cagcaaaggt agatgagtat gcaagaggta   240

tgatcagtgg ttctagtact acacttgttg aggagctcgg cttatactac atatgccctg   300

tggatggtc   309

<210>   450
<211>   233
<212>   DNA
<213>   Glycine max

<400>   450

aaaacaactg gtcctgtgct gctccatgtt gtcactgaaa aaggccatgg atatccatat   60

gcagaaagag cagcagatta gtaccatgga gttactaagt ttgatccatt aactggaaaa   120

caattcaaat tcaatgctgc cacccagtta tacacaacat actttgcaga ggctttaatt   180

151

tctgaagcgg aagcttacaa agacattgtc ggaatccatg ctgcaatggg agg   233

<210>   451
<211>   268
<212>   DNA
<213>   Glycine max

<400>   451

tgtgattctg tatgatagcc gtcactcttt acttccaaaa attgaggagg gcccaaagac   60

atttgtcaat gccctatcta gtaccctgag caagctccag tccagtaaat ctttccggag   120

atttagagaa gctgctaggg gtgttacgaa acgaattggt aggtctgcat gaattggcag   180

ctaaagtgga tgaatatgct cgtggtatga tgggtcctct aggtgctact ctttttgaag   240

agcttgggtt gtactacata ggcccagt   268

<210>   452
<211>   162
<212>   DNA
<213>   Glycine max

<400>   452

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cattggaccg ttctcttatt cttagccttg cccaatcgca cgaggttttg atcactgtgg   120

aagaagggca ataggaggat tcggatctca tgttgttcag tt   162

<210>   453
<211>   232
<212>   DNA
<213>   Glycine max

<400>   453

gatctctccg ctctctcatc ataccgcact ctcgggtagt tacttcctct tccctctcac   60

tctcaatggg gtctccattt cctcgcccac gctcaccgcc tccaccagat gaagaaaagg   120

ccatgtgggg tatatgcatc cctctccgag agtggagagt attattccca ccgaccgcca   180

actcccctac tagacaccgt caactatcct attcatatga agaatctctc tg   232

<210>   454
<211>   280

152

<212>   DNA
<213>   Zea mays

<400>   454

gtgcaccgac caagaaaacc tcgcttcacg atctctacga gctccagggc ctctccccgt   60

ggtatgacaa cctctgccga cctgtcaccg acttgctgcc ccttatcgcc agctgtgttc   120

gtggagtcac cagcaaccct gcagtaatcc tccgtttcca ccttttgttt cttcgcttgc   180

atggttgctg cgcattcact cctgaccgtg tcctcgacgc aatgcagatt ttccagaagg   240

ccatctcatc ctccagcgca tatgatgatc agttcaagca   280

<210>   455
<211>   274
<212>   DNA
<213>   Zea mays

<400>   455

tgacactcaa ggaactgttg aggaggcaaa gtggttacac aaagtggtca accgccccaa   60

tgtctacata aagatccctg ctaccgcaga atgtgttcat tccatccgtg aagttatcgc   120

taatggcatt agcgtcaacg tcacgcttat attctctatt gcgagatacg aggctgtgat   180

tgatgcttac cttgatgggc tagaggcttc tggcttgagc gacttatctc gagttaccag   240

tgtcgcatcc ttctttgtca gtcgagtcga cacc   274

<210>   456
<211>   306
<212>   DNA
<213>   Zea mays

<400>   456

ccaacgagca aacccccat ttgccaccaa ccccgacgag cggcgatgac cggcacgtgt   60

ctaagctggc ggcgccccgt ccggcggcac cgccgctccg gccggcgtcc ctccgcaccg   120

ccgccctcgc cttcgccccc tccgcgcgcc gggtccgcgt ctccgtcgcc gggcgagcca   180

ggagccccat cattgcgatg gcttcggcca aggaaggaaa tggtgcaccg accaagagga   240

ctgcgcttca tgatctctac gagctccagg gcctgtcccc gtggtacgac aacctatgcc   300

gccctg   306

153

<210>   457
<211>   330
<212>   DNA
<213>   Zea mays

<400>   457

ccaaggtggg aggcgttggc caagaaaggt gccaagaaac aaaggttgtt gtgggcatcc   60

accggtgtca agaacccagc ttatcctgac actctttatg tggacagtct catcggacct   120

gacacggtca acacgatgcc cgaccaagct ttgcaagcat tcatagacca cggcaccgtt   180

tcaaggacag ttgatgcgaa cgtgtctgag cggaaggtg tatacagtgc cttggagaag   240

cttggcatcg actgggaaga ggttggaaag cagcttgagc tggaaggcgt ggactccttc   300

aagaagagct ttgacagcct actcgtgagc   330

<210>   458
<211>   317
<212>   DNA
<213>   Zea mays

<400>   458

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gttgtgggca tccaccggtg tcaagaaccc agcttatccc gacactcttt acatcgacag   120

tctcattgga cctgacacgg tcaacacgat gcccgaccaa gctttgcacg cattcataga   180

ccacggcact gtctcgagga cagttgatgc gaatgtgtcc gaggcggaag gtgtatacag   240

cgccttggag aagcttggca ttgactgggg cgaggtcgga aagcagcttg agctggaagg   300

tgtggactcc ttcaaga   317

<210>   459
<211>   306
<212>   DNA
<213>   Zea mays

<400>   459

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gtcaagaacc cagcttatcc tgacactctt tatgtggaca gtctcatcgg acctgacacg   120

gtcaacacga tgcccgacca agctttgcaa gcattcatag accacggcac cgtttcaagg   180

acagttgatg cgaatgtgtc tgaggcggaa ggtgtataca gcgccttgga gaagcttggc   240

154

atcgactggg aagaggttgg aaagcagctt gagctggaga gcgtggactc cttcaagaag 300

agcttt 306

<210> 460
<211> 299
<212> DNA
<213> Zea mays

<400> 460

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ccttatcgac aaaatgcttg agaagattgg aacacctgag gcacttgcct tgagagggaa 120

ggctgccgtc gcacaggcca aactagcaaa tcggctctac cagaagaaat tctctggccc 180

gaagtgggag gcgttggcca agaaaggtgc caagaaacag aggttgttgt gggcgtccac 240

cggtgtcaag aacccagctt atcccgacac tctttacatc gacagtctca ttggacctg 299

<210> 461
<211> 282
<212> DNA
<213> Zea mays

<400> 461

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aggtgccaag aaacaaaggt tgttgtgggc atccaccggt gtcaagaacc cagcttatcc 120

tgacactctt tatgtggaca gtctcatcgg acctgacacg gtcaacacga tgcccgacca 180

agctttgcaa gcattcatag accacggcac cgtttcaagg acagttgatg cgaacgtgtc 240

tgaggcggaa ggtgtataca gtgccttgga gaagcttggc at 282

<210> 462
<211> 295
<212> DNA
<213> Zea mays

<400> 462

gcgacttatc tcgagttacc agtgtcgcat ccttctttgt cagccgagtc gacacccta 60

tcgacaaaat gcttgagaag attggaacac ctgaggcact tgccttgaga gggaaggctg 120

ccgtcgcaca ggccaaacta gcaaatcggc tctaccagaa gaaattctct ggcccgaggt 180

155

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gggaggcgtt ggccaagaaa ggtgccaaga aacagaggtt gttgtgggca tccaccggtg    240

tcaagaaccc agcttatccc gacactcttt acatcgacag tctcattgga cctga          295


<210>        463
<211>        313
<212>        DNA
<213>        Zea mays

<400>        463

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tattttctca attgcgagat atgaggctgt gattgatgct tacctcgatg ggctagaggc    120

ttctggactt gagtgactta tcccgagtta ctagcgttgc atccttcttt gtcagccgag    180

tggacaccct tattgacaaa atgcttgaca agattggaac acctgaggcc cttgccttga    240

gaggaaaggc tgcagtagcg caggccaaac tagcaaatcg gctctaccag aagaaattct    300

ctggcccaag gtg                                                        313


<210>        464
<211>        275
<212>        DNA
<213>        Zea mays

<400>        464

gaacacctga ggcccttgcc ttgagaggaa aggctgcagt agcacaggcc aaactagcaa     60

atcggctcta ccagaagaaa ttctctggcc caaggtggga ggcgttggcc aagaaaggtg    120

ccaagaaaca aaggttgttg tgggcatcca ccggtgtcaa gaacccagct tatcctgaca    180

ctctttatgt ggacagtctc atcggacctg acacggtcaa cacgatgccc gaccaagctt    240

tgcaagcatt catagaccac ggcaccgttt caagg                                275


<210>        465
<211>        286
<212>        DNA
<213>        Zea mays

<400>        465

cccacgcgtc cgcccacgcg tccggtgatt gatgcttacc ttgatgggct agaggcttct     60

ggcttgagcg acttatctcg agttaccagt gtcgcatcct tctttgtcag ccgagtcgac    120
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156

accccttatcg acaaaatgct tgagaagatt ggaacacctg aggcacttgc cttgagaggg 180

aaggctgccg tcgcacaggc caaactagca aatcggctct accagaagaa attctctggc 240

ccgaggtggg aggcgttggc caagaaaggt gccaagaaac agaggt 286

<210>   466
<211>   284
<212>   DNA
<213>   Zea mays

<400>   466

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acataaagat cccagctact gcagaatgtg ttccttccat ccaggaagtt atcgctaatg 120

gcattagcgt caacgtcacg cttattttct caattgcgag atatgaggct gtgattgatg 180

cttacctcga tgggctagag gcttctggct tgagtgactt atcccgagtt actagcgttg 240

catccttctt tgtcagccga gtggacaccc ttattgacaa aatg 284

<210>   467
<211>   277
<212>   DNA
<213>   Zea mays

<400>   467

aaccgcccca atgtctacat aaagatccct gctaccgccg aatgtgttcc ttccatccgg 60

gaagttatcg ctaatggcat tagcgtcaac gtcacgctta ttttctctat tgcgagatac 120

gaggctgtga ttgatgctta ccttgatggg ctagaggctt ctggcttgag cgacttatct 180

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cttgagaaga ttggaacacc tgaggcactt gccttga 277

<210>   468
<211>   279
<212>   DNA
<213>   Zea mays

<400>   468

ttttgagcct atctacgatg agaccgatgg ggctgatggg tatgtctccg tggaggtgtc 60

tcctaggttg gcaaatgaca ctcaaggaac tgttgaggcc gcaaagtggt tacacaaagt 120

157

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ggtcaaccgc cccaatgtct acataaagat ccctgctacc gccgaatgtg ttccttccat    180

ccgggaagtt atcgctaatg gcattagcgt caacgtcacg cttattttct ctattgcgag    240

atacgaggct gtgattgatg cttaccttga tgggctaga                           279


<210>      469
<211>      334
<212>      DNA
<213>      Zea mays

<400>      469

cggacgcgtg ggtccagcgc atatgatgat cagttcaagc agctcatttc ggctggaaag     60

gacgcggaga gcgcttactg ggaactcgtt ataaaggata tccaagatgc gtgcaaactt    120

tttgagccca tctacgatga gactgatggg gctgatgggt atgtctccgt agaggtgtct    180

cctaggttgg caaatgacac tcaaggaact gttgaagcgg caaagtggtt acacaaagtg    240

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caggaagtta tcgctaatgg cattagcgtc aacg                                334


<210>      470
<211>      322
<212>      DNA
<213>      Zea mays

<400>      470

tagcagctca tttcggcagg aaaggatgcg gagagcgctt actgggaact cgttataaag     60

gatatccaag atgcgtgcaa actttttgag cccatctacg acgagactga tggggctgat    120

gggtatgtct ccgtagaggt gtctcctagg ttggcaaatg acactcaagg aactgttgaa    180

gcggcaaagt ggttacacaa agtggtcaac cgccccaatg tctacataaa gatcccagct    240

actgcagaat gtgttccttc catccaggaa gttatcgcta atggcattag cgtcaacgtc    300

acgcttattt tctcaattgc ga                                             322


<210>      471
<211>      283
<212>      DNA
<213>      Zea mays

<400>      471
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158

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gttgttgtgg gcatccaccg gtgtcaagaa cccagcttat cccgacactc tttacatcga    60

cagtctcatt ggacctgaca cggtcaacac gatgcccgac caagctttgc acgcattcat   120

agaccacggc actgtctcga ggacagttga tgcgaatgtg tccgaggcgg aaggtgtata   180

cagcgccttg gagaagcttg gcattgactg gggcgaggtc ggaaagcagc ttgagctgga   240

aggtgtggac tccttcaaga agagctttga cagcctactc gtg                     283


<210>      472
<211>      265
<212>      DNA
<213>      Zea mays

<400>      472

gccttatcga caaaatgctt gagaagattg gaacacctga ggcacttgcc ttgagaggga    60

aggctgccgt cgcacaggcc aaactagcaa atcggctcta ccagaagaaa ttctctggcc   120

cgaggtggga ggcgttggcc aagaaaggtg ccaagaaaca gaggttgttg tgggcatcca   180

ccggtgtcaa gaacccagct tatcccgaca ctctttacat cgacagtctc attggacctg   240

acacggtcaa cacgatgccc gacca                                         265


<210>      473
<211>      240
<212>      DNA
<213>      Zea mays

<400>      473

caagattgga acacctgagg cccttgcctt gagaggaaag gctgcagtag cacaggccaa    60

actagcaaat cggctctacc agaagaaatt ctctggccca aggtgggagg cgttggccaa   120

gaaaggtgcc aagaaacaaa ggttgttgtg ggcatccacc ggtgtcagga acccagctta   180

tcctgacact ctttatgtgg acagtctcat cggacctgac acggtcaaca cgatgcccga   240


<210>      474
<211>      301
<212>      DNA
<213>      Zea mays

<400>      474

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159

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aaacttttttg agcccatata cgatgagact gatagggctg atgggtatgt ctccgtagag   120

gtgtctccta ggttggcaaa tgacactcaa ggaactgttg aagcggcaaa gtggttacac   180

aaagtggtca accgccccaa tgtctacata aagatcccag ctactgcaga atgtgttcct   240

tccatccagg aagttatcgc taatggcatt agcgtcaacg tcacgcttat tttctcaatt   300

g                                                                    301
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<210>   475
<211>   300
<212>   DNA
<213>   Zea mays

<400>   475

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agaggcttct ggcttgagcg acttatctcg agttaccagt gtcgcatcct tctttgtcag    60

ccgagtcgac acccttatcg acaaaatgct tgagaagatt ggaacacctg aggcacttgc   120

cttgagaggg aaggctgccg tcgcacaggc caaactagca aatcggctct accagaagaa   180

attctctggc ccgaggtggg aggcgttggc caagaaaggt gccaagaaac agaggttgtt   240

gtgggcatcc accggtgtca agaacccagc ttatcccgac actctttaca tcgacagtct   300
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<210>   476
<211>   267
<212>   DNA
<213>   Zea mays

<400>   476

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ccccaatgtc tacataaaga tcccagctac tgcagaatgt gttccttcca tccaggaagt   120

tatcgctaat ggcattagcg tcaacgtcac gcttattttc tcaattgcaa gatatgaggc   180

tgtgattgat gcttacctcg atgggctaga ggcttctggc ttgagtgact tatcccgagt   240

tactagcgtt gcatccttct ttgtcag                                        267
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<210>   477
<211>   293
<212>   DNA
<213>   Zea mays

<400>   477

160

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gtctcctagg ttggcaaatg acactcaagg aactgttgaa gcggcaaagt ggttacacaa   180

agtggtcaac cgccccaatg tctacataaa gatcccagct actgcagaat gtgttccttc   240

catccaggaa gttatcgcta atggcattag cgtcaacgtc acgcttttct caa          293
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<210>   478
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<212>   DNA
<213>   Zea mays

<400>   478

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aacccagctt atcgcgacac tctttacatc gacagtctca ttggacctga cacggtcaac   120

acgatgcccg accaagcttt gcacgcattc atagaccacg gcactgtctc gaggacagtt   180

gatgcgaatg tgtccgaggc ggaaggtgta tacagcgcct tggagaagct tggcattgac   240

tggggcgagg tcggaaa                                                   257
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<210>   479
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<212>   DNA
<213>   Zea mays

<400>   479

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aggctgccgt cgcacaggcc aaactagcaa atcggctcta ccagaagaaa ttctctggcc   120

cgaggtggga ggcgttggcc aagaaaggtg ccaagaaaca gaggttgttg tgggcgtcca   180

ccggtgtcaa gaacccagct tatcccgaca ctctttacat cgacagtct              229
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<210>   480
<211>   263
<212>   DNA
<213>   Zea mays

<400>   480

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161

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gaactgttga agcggcaaag tggttacaca aagtggtcaa ccgccccaat gtctacataa   120

agatcccagc tactgcagaa tgtgttcctt ccatccagga agttatcgct aatggcatta   180

gcgtcaacgt cacgcttatt ttctcaattg caagatatga ggctgtgatt gatgcttacc   240

tcgatgggct agaggcttct ggc                                           263


<210>      481
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<212>      DNA
<213>      Zea mays

<400>      481

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atcgccagcg ggtccgtgga gtcaccagca acccaacgat tttccaaaag gccatttcat   180

cgtccagcgc atatgatgat cagttcaagc agctcatttc ggcaggaaag gatgcggaga   240

gcgcttactg ggaactcgtt ataaaggata tccaagatgc gtgcaaactt tttgagccca   300


<210>      482
<211>      312
<212>      DNA
<213>      Zea mays

<400>      482

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agtgtcgcat ccttctttgt cagtcgagtc gacaccctta tcgacaaaat gcttgagaag   180

attggaacac ctgaggcact tgccttgaga gggaaggctg ccgtcgcaca ggccaaacta   240

gcaaatcggc tctaccagaa gaaattctct ggcccgaggt gggaggcgtt ggccaagaaa   300

ggtgccaaga aa                                                       312


<210>      483
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<212>      DNA
<213>      Zea mays

<400>      483
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162

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agcagctcat ttcggcagga aaggatgcgg agagcgctta ctgggaactc gttataaagg   120

atatccaaga tgcgtgcaaa ctttttgagc ccatctacga cgagactgat ggggctgatg   180

ggtatgtctc cgtagaggtg tctcctaggt tggcaaatga cactcaagga actgttgaag   240

cggcaaagtg gttacacaaa gtgg   264

<210>   484
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<212>   DNA
<213>   Zea mays

<400>   484

ggtcaacacg atgcccgacc aagctttgca ggcattcata gaccacggca ctgtttcgag   60

gacagttgat gcgaatgtgt ccgaggcgga aggtgtatac agcgccttgg agaagcttgg   120

cattgactgg ggcgaggtcg gaaagcagct tgagctggaa ggtgtggact ccttcaagaa   180

gagctttgac agcctactcg tgagcctgca ggagaagggc aactagcctc aa   232

<210>   485
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<212>   DNA
<213>   Zea mays

<400>   485

caaacttttt gagcccatct acgacgagac tgatggggct gatgggtatg tctccgtaga   60

ggtgtctcct aggttggcaa atgacactca aggaactgtt gaagcggcaa agtggttaca   120

caaagtggtc aaccgcccca atgtctacat aaagatccca gctactgcag aatgtgttcc   180

ttccatccag gaagttatcg ctaatggcat tagcgtcaac gtcacgctta ttttctcaat   240

tgcgagatat gaggctgt   258

<210>   486
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<212>   DNA
<213>   Zea mays

<400>   486

aaagtggtta cacaaagtgg tcaaccgccc caatgtctac ataaagatcc ctgctaccgc   60

163

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tattttctct attgcgagat acgaggctgt gattgatgct taccttgatg ggctagaggc    180

ttctggcttg agcgacttat ctcgagttac cagtgtcgca tccttctttg tcagtcgagt    240

cgacaccctt atcgacaaaa tgttgagaag atggaacacc tgaggcattg ccttgagagg    300

gaaggtgccg tcgcacagcc aactagca                                        328


<210>      487
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<212>      DNA
<213>      Zea mays

<400>      487

cccacgcgtc cggtcaccga cttgctgccc cttatcgcca gcggtgttcg tggagtcacc     60

agcaaccctg caattttcca gaaggccatc tcatcctcca gcgcatatga tgatcagttc    120

aagcagctca tttcgggcgg aaaggacgcg gagagcgctt actgggaact tgttataaag    180

gatatccaag acgcgtgcag tctttttgag cctatctacg atgagaccga tggggctgat    240

gggtatgtct ccgtggaggt gtctcctagg ttgg                                 274


<210>      488
<211>      213
<212>      DNA
<213>      Zea mays

<400>      488

cggacggtgg gcgacaaaat gcttgagaag attggaacac ctgaggcact tgccttgaga     60

gggaaggctg agcgtcgcac aggccaaact agcaaatcgg ctctaccaga agaaattctc    120

tggcccgagg tgggaggcgt tggccaagaa aggtgccaag aaacagaggt tgttgtgggc    180

gtccaccggt gtcaagaacc cagcttatcc cga                                  213


<210>      489
<211>      262
<212>      DNA
<213>      Zea mays

<400>      489

tttcatcgtc cagcgcatat gatgatcagt tcaagcagct catttcggct ggaaaggacg     60
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164

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cggagagcgc ttactgggaa ctcgttataa aggatatcca agatgcgtgc aaacttttg    120

agcccatcta cgatgagact gatggggctg atgggtatgt ctccgtagag gtgtctccta    180

ggttggcaaa tgacactcaa ggaactgttg aagcggcaaa gtggttacac aaagtggtca    240

accgccccaa tgtctacata aa                                              262


<210>      490
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<212>      DNA
<213>      Zea mays

<400>      490

cgatggggct gatgggtatg tctccgtgga ggtgtctcct aggttggcaa atgacactca     60

aggaactgtt gaggcggcaa agtggttaca caaagtggtc aaccgcccca atgtctacat    120

aaagatccct gctaccgccg aatgtgttcc ttccatccgg gaagttatcg ctaatggcat    180

tagcgtcaac gtcacgctta ttttctctat tgcgacatac gaggctgtga ttgatgctta    240

ccttgatggg ct                                                        252


<210>      491
<211>      239
<212>      DNA
<213>      Zea mays

<400>      491

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caagcagctc atttcggctg gaaaggacgc ggagagcgct tactgggaac tcgttataaa    120

ggatatccaa gatgcgtgca aactttttga gcccatctac gatgagactg atggggctga    180

tgggtatgtc tccgtagagg tgtctcctag gttggcaaat gacactcaag gaactgttg    239


<210>      492
<211>      196
<212>      DNA
<213>      Zea mays

<400>      492

gaaaggtgcc aagaaacaaa ggttgttgtg ggcatccacc ggtgtcaaga acccagctta     60

tcctgacact ctttatgtgg acagtctcat cggacctgac acggtcaaca cgatgcccga    120
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165

ccaagctttg caagcattca tagaccacgg caccgtttca aggacagttg atgcgaacgt   180

gtctgaggcg gaaggt   196

<210>   493
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<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   493

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acttgctgcc cattatcgcc agcgaggtcc gtggagtcac cagcaatcca acgattttcc   120

anaaggccat ttcatcgtcc agcgcatatg atgatcagtt caagcagctc atttcggctg   180

gaaaggacgc ggagagcgct tactgggaac tcgttataaa ggatatccaa gatgcgtgca   240

aactttttga gcccatctac gatgagactg atggggctga tgggtatgtc tccgtagagg   300

tgtctcctag gttggcaaat gacactcaag gaactgttga agcggcatag tggtt   355

<210>   494
<211>   270
<212>   DNA
<213>   Zea mays

<400>   494

gactagttct agatcgccag cggcgtccgt ggagtcacca gcaacccaac gattttccaa   60

aaggccattt catcgtccag cgcatatgat gatcagttca agcagctcat ttcggcagga   120

aaggatgcgg agagcgctta ctgggaactc gttataaagg atatccaaga tgcgtgcaaa   180

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tctcctaggt tggcaaatga cactcaagga   270

<210>   495
<211>   226
<212>   DNA
<213>   Zea mays

<400>   495

gacgcggaga gcgcttactg ggaactcgtt ataaaggata tccaagatgc gtgcaaactt   60

166

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tttgagccca tctacgatga gactgatggg gctgatgggt atgtctccgt agaggtgtct    120

cctaggttgg caaatgacac tcaaggaact gttgaagcgg caaagtggtt acacaaagtg    180

gtcaaccgcc ccaatgtcta cataaagatc ccagctactg cagaat                   226
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<210>   496
<211>   234
<212>   DNA
<213>   Zea mays

<400>   496

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cccacgcgtc cgcccacgcg tccgggaaag gatgcggaga gcgcttactg ggaactcgtt    60

ataaaggata tccaagatgc gtgcaaactt tttgagccca tctacgacga gactgatggg    120

gctgatgggt atgtctccgt agaggtgtct cctaggttgg caaatgacac tcaaggaact    180

gttgaagcgg caaagtggtt acacaaagtg gtcaaccgcc ccaatgtcta cata          234
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<210>   497
<211>   313
<212>   DNA
<213>   Zea mays

<400>   497

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ccgagtccgc gtttccgtcg ccgggcgagc caggagcccc atcattgcga tggcttcggc    60

caaggaagga agcggtgcac cgaccaagag gactgcgctt catgatctct acgagctcca    120

gggcctgtcc ccgtggtacg acaacctatg ccgccctgtc acagacttgc tgcccattat    180

cgccagcggc gtccgtggag tcaccagcaa cccaacgatt ttccaaaagg ccatttcatc    240

gtccagcgca tatgatgatc agttcaagca gctcatttcg gcaggaaagg atgcggagag    300

cgcttactgg gaa                                                       313
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<210>   498
<211>   243
<212>   DNA
<213>   Zea mays

<400>   498

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ggatatgcaa gatgcgtgca aactttttga gcccatctat gacgagactg atggggctga    60

tgggtatgtc tccgtagagg ggtctcctag gttggctaat gacactcaat gtactgttga    120
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agctgcaaag tggttacaca aagttgtcaa ccgcccccaat gtctacataa agatcccagc   180

tactgcagaa tgtgttcctt ccatccagga agttatccct aatggcatta gcgtcaacgt   240

cac   243

<210>   499
<211>   281
<212>   DNA
<213>   Zea mays

<400>   499

cacgcttatt ttctctattg cgacatacga ggctgtgatt gatgcttacc ttgatgggct   60

agaagcttcg ggcttgagcg acttatctcg agttaccagt gtcgcatcct tctttgtcag   120

ccgagtcgac acccttatcg acaaaatgct gaaaatattg gaacacctga ggcacttgcc   180

ttgagaggga aggctgccgt cgcacaggcc aaactagcaa atcggctcta ccagaagaaa   240

ttctctggcc caaggtggga ggcgttggcc aagaaaggtg c   281

<210>   500
<211>   320
<212>   DNA
<213>   Zea mays

<400>   500

gtctcgagga cagttccgtg gtctatgaat gcgtgcaaag cttggtcggg catcgtgttg   60

accacggcac tgtctcgagg acagttgatg cgaatgtgtc cgatgcggaa cgtgtataca   120

gcgccttgga gaatcttggc attgactggg gcgatgtcgg aaagcagctt gagctggaag   180

gtgtggactc cttcaagaag agctttgaca gcctactcgt gagcctacag gagaatggca   240

acagcctcaa gacggcaact gtgtaaaact gagaagattg ggtagcggcg ggtgaacgat   300

tttactatat aaaatgctag   320

<210>   501
<211>   318
<212>   DNA
<213>   Zea mays

<400>   501

tgttggccaa gcaagagtgc caacgaaaca gcacgttcgc tgtagcgcat cccttggtgt   60

168

ccagaaccca gcttgtcccg cgactaccta catcgacagt ctcattgggc ctgacacggt 120

caacacgatg cccgaccaag ctttgcacgc attcatagac cacggcactg tctcgaggac 180

agttgatgcg aatgtgtccg aggcggaagg tgtatacagc gccttggaga agcttggcat 240

tgactcgggc gaggtcggaa agcagcttga gctggaaggt gtggactctt caagcagact 300

ttgacagcct actcgtga   318

<210>   502
<211>   283
<212>   DNA
<213>   Zea mays

<400>   502

cagacgcgtg gggtccgcgt ctccgtcgcc gggcgagcca ggagccccat cattgcgatg 60

gcttcggcca aggacggaaa tggtgcaccg accaagagga ctgcgcttca tgatctctac 120

gagctccagg gcctgtcccc gtggtacgac aacctatgcc gccctgtcac agacttgctg 180

cccattatcg ccagcggcgt ccgtggagtc accagcaacc caacgatttt ccaaaaggcc 240

atttcatcgt ccagcgcata tgatgatcag ttcaagcagc tca   283

<210>   503
<211>   275
<212>   DNA
<213>   Zea mays

<400>   503

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acgaacaccg ctattttcca gaaggtcatc tcatcctcca gcgcatatga tgatcagttc 120

aagcagctca tttcgggcgg aaatgacgcg gagagtgctt actgcgaact tgttatacag 180

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gggtatgtct ccgtggaggt gtctcctagg ttggc   275

<210>   504
<211>   184
<212>   DNA
<213>   Zea mays

<400>   504

accagcaacc ctacaatttt ccagaaggcc atctcatcct ccagcgcata tgatgatcag   60

ttcaagcagc tcatttcggg cggaaaggac gcggagagcg cttactggga actcgttata   120

aaggatatcc aagacgcgtg cagtcttttt gagcctatct acgatgagac cgatgggct   180

gatg   184

<210>   505
<211>   262
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   505

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tcgactggga agaggttgga aagcagcttg agctggaagg cgtggactcc ttcaagaaga   120

gctttgacag cctactcgtg agcctgcagg agaagggcaa cagcctcaag atggcgagtg   180

tgtaaagctg agaagattgg gtacctgcga gtgaacgatt ttactanata naatgctagc   240

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<210>   506
<211>   291
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<213>   Zea mays

<400>   506

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gccttggaga agcttggcat cgactgggaa gaggttggaa agcagcttga gctggaaggc   120

gtggactcct tcaagaagag ctttgacagc ctactcgtga gcctgcagga gaagggcaac   180

agcctcaaga tggcgagtgt gtaaagctga gaagattggg tacctgcgag tgaacgattt   240

tactaaataa aatgctagct tgctggctct cctcttagtt tttacgctgt a   291

<210>   507
<211>   244
<212>   DNA
<213>   Zea mays

<400>   507

aaggcggaag gtgtatacag cgccttggag aagcttggca ttgactgggc cgaggtcgga   60

170

aagcagcttg agctggaagg tgtggactcc ttcaagaaga gctttgacag cctactcgtg   120

agcctgcagg agaagggcaa cagcctcaag acggcaactg tgtaaaactg agaagattgg   180

gtaccggcgg gtgaacgatt ttactaaata aaatgctagc ttgctggctc tcctaatttt   240

tacg   244

<210>   508
<211>   298
<212>   DNA
<213>   Zea mays

<400>   508

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ggaagaggtt ggaaagcagc ttgagctgga aggcgtggac tccttcaaga agagctttga   120

cagcctactc gtgagcctgc aggagaaggg caacagcctc aagatggcga gtgtgtcaag   180

ctgagaagat tgggtacctg cgagtgaacg attttactaa ataaaatgct agcttgctag   240

ctctcctctt agtttttacg ctgtaccttt gctctcaatt ttctgagtcg ctttgta   298

<210>   509
<211>   241
<212>   DNA
<213>   Zea mays

<400>   509

gcagaatgtg ttccttccat ccaggaagtt atcgctaatg gcattagcgt caacgtcacg   60

cttattttct caattgcaag atatgaggct gtgattgatg cttacctcga tgggctagag   120

gcttctggct tgagtgaatt atcccgagtt actagcgttg catccttctt tgtcagccga   180

gtggacaccc ttattgacaa aatgcttgac aagattggaa cacctgaggc ccttgccttg   240

a   241

<210>   510
<211>   139
<212>   DNA
<213>   Zea mays

<400>   510

caagacgcgt gcagtctttt tgagcctatc tacgatgaga ccgatggggc tgatgggtat   60

171

gtctccgtgg aggtgtctcc taggttggca aatgacactc aaggaactgt tgaggccgca 120

aagtggttac acaaagtgg 139

<210> 511
<211> 170
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 511

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cttggagaag cttggcattg actgggccga ggtcggaaag cagcttgagc tggaaggtgt 120

ggactccttc acagagagca ttgacangct actcgtgagc ctgcaggaga 170

<210> 512
<211> 169
<212> DNA
<213> Zea mays

<400> 512

ctcgatgggc tagaggcttc tggcttgagt gacttatccc gagttactag cgttgcatcc 60

ttctttgtca gccgagtgga cacccttatt gacaaaatgc ttgacaagat tggaacacct 120

gaggcccttg ccttgagagg aaaggctgca gtagcgcagg ccaaactag 169

<210> 513
<211> 259
<212> DNA
<213> Zea mays

<400> 513

gcgccttgga gaagcttggc attgactggg gcgaggtcgg aaagcagctt gagctggaag 60

gtgtggactc cttcaagaag acgcggtgac agcctactcg tgagcctaca ggagaagggc 120

aacagcctca agacggcaac tgtgtaaaac tgagaagatt gggtaccggc gggtgaacaa 180

cattactaaa taaaatgcta gcttgctggc tctcttagtt tttacgatgt acctttgctc 240

tccattttct gaatcggga 259

<210> 514

<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 514

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gtgagcctgc aggagaaggg caacagcctc aagatggcga gtgtgtaaag ctgagaagat   120

tgggtacctg cgagtgaacg attttactaa atanaatgct agcttgctgg ctctcctctt   180

agtttttacg ctgtactttg ctctcaattt tctgag   216

<210> 515
<211> 291
<212> DNA
<213> Zea mays

<400> 515

catcgactgg gaagaggttg gaaagcagct tgagctggaa ggcgtggact ccttcaagaa   60

gagctttgac agcctactcg tgagcctgca ggagaagggc aacagcctca agatggcgag   120

tgtgtaaagc tgagaagatt gggtacctgc gagtgaacga ttttactaaa taaaatgcta   180

gcttgctggc tctcctctta gttttacgc tgtacctttg ctctcaattt tctgagtcgg   240

ctttgtatcc cagcttgcca gaacgtcatg tgtagccatg ttcatggctg t   291

<210> 516
<211> 260
<212> DNA
<213> Zea mays

<400> 516

gcgtggactc cttcaagaag agctttgaca gcctactcgt gagcctgcag gagaagggca   60

acagcctcaa gatggcgagt gtgtaaagct gagaagattg ggtacctgcg agtgaacgat   120

tttactaaat aaaatgctag cttgctggct ctcctcttag tttttacgct gtacctttgc   180

tctcaatttt ctgaatcggc tttgtatccc aggcttgcca gaacgtcatt gtgtagccac   240

tgttcatggc ttgtaattgc   260

<210> 517
<211> 327

173

<212>   DNA
<213>   Zea mays

<400>   517

cgacggaaat agatgctcgg ttagcttatg acacccaggg cataatccac agggtacatg   60

aactgttgaa tctatacaac caacatgatg tctcaactga ccgcctgtta ttcaaaattc   120

ctgctacatg gcaaggcata gaggcctcaa ggttgcttga atctgaagga attcaaacgc   180

atctatcatt tgtttacagt ttcgcacaag cggcagcggc agcacaagct ggtgcatctg   240

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gatagatgaa gctttgaaga atggaga   327

<210>   518
<211>   203
<212>   DNA
<213>   Zea mays

<400>   518

cagggcataa tccacagggt acatgaactg ttgaatctat acaaccaaca tgatgtctca   60

actgaccgcc tgttattcaa aattcctgct acatggcaag gcatagaggc ctcaaggttg   120

cttgaatctg aaggaattca aacgcatcta acatttgttt acagtttcgc acaagcggca   180

gggtcagcac aagctggtgc atc   203

<210>   519
<211>   268
<212>   DNA
<213>   Zea mays

<400>   519

cctcaaggtt gcttgaatct gaaggaattc aaacgcatct aacatttgtt tacagtttcg   60

cacaagcgag cacggcagca caagctggtg catctgtagt acaaatgttt gtaggccgat   120

tgcgggactg ggcaaggcat cactctggtg acccagagat agatgaagct ttgaagaatg   180

gagaagatgc tgggctttct ttggcgaaga aagtatatgc ctatattcac aggaatgggt   240

acaaaacaaa gctgatggcc gctgccat   268

<210>   520
<211>   417

174

<212> DNA
<213> Zea mays

<400> 520

ggaacacctg aggcccttgc cttgagagga aaggctgcag tagcgcaggc cagactggca 60

aatcggctct ggcagaagaa attctctggc ccaaggtggg aggcgttggc caagaaaggt 120

gccaagaaac aaaggttgtt gtgggcatcc accggtgtca agaacccagc ttatcctgac 180

actctttatg tggacagtct catcggacct gacacggtca acacgatgcc cgaccaagct 240

ttgcaagcat tcatagacca cggcaccgtt tcaaggacag ttgatgcgaa tgtgtctgaa 300

gcggaaggtg tatacagcgc cttggagaag cttggcatcg actgggaaga ggttggaaag 360

cagcttgagc tggaaggcgt ggactccttc aagaagagct ttgacagcct actcgtg 417

<210> 521
<211> 424
<212> DNA
<213> Zea mays

<400> 521

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gccatgaaac agaggttgtt gtgggcgttc accggtgtca agaacccagc ttatcccgac 120

actctttaca tcgactgtct cattggacct gacactgtca acacgatgcc cgaccaagct 180

ttgcaggcat tcatagacca cggcactgtt tcgaggacag ttgatgcgaa tgtgtacgag 240

gcggaaggtg tatacagcgc cttggacaat cttggcattg actggcgcga ggtcagaaag 300

cagcttgagc tggaaggtgt ggactccttc atgaagagct ttgacagcct actcgtgagc 360

ctgcaggaga tggtcaacat cctcaagacg gcatctgtgt aaaactgaga agattgtgta 420

ccgg 424

<210> 522
<211> 443
<212> DNA
<213> Zea mays

<400> 522

atttcggctg gaaaggacgc ggagagcgct tactgggaac tcgttataaa ggatatccag 60

gatgcgtgca aactttttga gcccatctac gatgagactg atggggctga tgggtatgtc 120

175

```
tccgtagagg tgtctcctag gttggcaaat gacactcaag gaactgttga agcggcaaag    180

tggttacaca aagtggtcaa ccgccccaat gtctacataa agatcccagc tactgcagaa    240

tgtgttcctt ccatccagga agttatcgct aatggcatta gcgtcaacgt cacgcttatt    300

ttctcaattg caagatatga ggctgtgatt gatgcttacc tcgatgggct agaggcttct    360

ggcttgagtg acttatcccg agttactagc gttgcatcct tctttgtcag ccgagtggac    420

acccttattg acaaaatgct tga                                           443


<210>       523
<211>       438
<212>       DNA
<213>       Zea mays

<223>       unsure at all n locations
<400>       523

gccagcggcg tccgtggagt caccttctac ccaacgattt tccaaaaggc catttgagtc    60

gtccagcgca tatgatgagc agttcaagca gctcatttcg gcaggaaagg atgcggagag    120

cgcttactgg gaactcgtta taaaggatat ccaagatgcg tgcaaacttt ttgagcccat    180

ctacgacgag actgatgggg ctgatgggta tgtctccgta gaggtgtctc ctaggttggc    240

aaatgacact caaggaactg ttgaagcggc aaagtggtta cacaaagtgg tcaaccgccc    300

caatgtctac ataaagatcc cagctactgc agaatgtgtt ccttccatcc aggaagttat    360

cgctaatggc attagcgtca acgtcacgct tatnntctca attgcgagat atgaggctgt    420

gattgatgct tacctcga                                                 438


<210>       524
<211>       369
<212>       DNA
<213>       Zea mays

<400>       524

gcgagatacg aggctgtgat tgatgcttac cttgatgggc tagaggctgg tggcttgagc    60

gacttatctt gagttaccag cgtcgcatgc ttctttgtca gtcgagtcta cacccttatc    120

gacaaaatgc ttgagaagat tggaacacct gaggcacttg ccttgagagg gaaggctgcc    180

gacgtacagg ccaaactagc aaatcggctc taccagaaga aattctctgg cccgaggtgg    240
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gaagcgtctg ccaagaaagg tgccaagaaa cagatgttgt tgcgggcgtt cacccgtgtc 300

aagaacccag cttatcccga cactctttac atcgacagtc ttattggacc tgacacggtc 360

aacacgatt   369

<210>   525
<211>   375
<212>   DNA
<213>   Zea mays

<400>   525

tgcttacctc gatgggctag aggcttctgg cttgagtgac ttatcccgag ttactagcgt   60

tgcgtccttc tttgtcagcc gagtggacac ccttattgac aaaatgcttg acaagattgg 120

aacacctgag gcccttgcct tgagaggaaa ggctgcagta gcacaggcca aactagcaaa 180

tcggctctac cagaagaaat tctctggccc aaggtgggag gcgttggcca agaaaggtgc 240

caagaaacaa aggttgttgt gggcatccac cggtgtcaag aacccagctt atcctgacac 300

tctggatgtg gacagtctca tctgacctga cacgttcaac acgatgcccg accaagcttt 360

gcaagcattt catag   375

<210>   526
<211>   389
<212>   DNA
<213>   Zea mays

<400>   526

cccacgcgtc cgctgcgctt catgatctct acgagctcca gggcctgtcc ccgtggtacg   60

agaacctatg ccgccctgtc acagacttgc tgcccattat cgccagcggc gtccgtggag 120

tcaccagcaa cccaacgatt ttccaaaagg ccatttcatc gtccagcgca tatgatgatc 180

agttcaagca gctcatttcg gcaggaaagg atgcggagag cgcttactgg gaactcgtta 240

taaaggatat ccaagatgcg tgcaaacttt ttgagcccat ctacgacgag actgatgggg 300

ctgatgggta tgtctccgta gaggtgtctc ctaggttggc aaatgacact caaggaactg 360

ttgaagcggc aaagtggtta cacaaagtg   389

<210>   527
<211>   379
<212>   DNA

<213>   Zea mays

<223>   unsure at all n locations
<400>   527

aatcggctct accagaagaa attctctggc ccgaggtggg aggcgttggc cgagaagggt   60

gccatgaaac agaggttgtt gtgggcgtcc accggtgtca agaacccagc ttatcccgac   120

actctctaca tcgacagcct cattggacct gacacggtca acactatgcc cgtacaagct   180

ttgcatgcat tcatagacca cggcactgtt tcgaggacag ttgatgctaa tgtgtacgag   240

gcggaaggtg tatacagcgc cttggagaag cttggcattg actgnggcga ggtcggaaag   300

caacttgagc tggaaggtgt ggactccttc aagaagagct ttgacagcct actcgtgagc   360

ctgcatgaga agggcaaca   379

<210>   528
<211>   185
<212>   DNA
<213>   Zea mays

<400>   528

aggcctgtcc ccgtggtacg acaacctatg ccgccctgtc acagacttgc tgcccattat   60

cgccagcggc gtccgtggag tcaccagcaa cccaacgatt ttccaaaagg ccatttcatc   120

gtccagcgca tatgatgatc agttcaagca gctcatttcg gcaggaaagg atgcggagag   180

cgcta   185

<210>   529
<211>   374
<212>   DNA
<213>   Zea mays

<400>   529

gaggtacgcg tacgcgaaca cgatgcccga ccaagctttt caagcattca tagaccactg   60

caccgtttca aggacagttg atgcgaatgt gtctgaggcg gaaggtgtat acagcgcctt   120

ggagaagctt ggcatcgact gggaacaggt tggaaagcag cttgagctgg aacgcgtgga   180

ctccttcaag aagagctttg acagcctact cgtgagcctg caggacaagg caacagtct   240

caagatggcg agtgtgtaaa gctgataaga ttgggtacct gccagtgaac gattttacta   300

aataaaatgc tagcttgctg gctcttctct tactatttac gctgtacctt tgctctcaat   360

178

tatctgaatc ggct   374

<210>   530
<211>   348
<212>   DNA
<213>   Zea mays

<400>   530

gtctcaactg accgcctgtt attcataatt cctgctacat ggcaaggcat agaggcctca   60

aggttgcttg aatctgaagg aattcaaacg catctaacat ttgtttacag tttcgcacta   120

aagcggcagc ggcagcacaa gctggtgcat ctgtagtaca aatgtttgtg ggccgattgc   180

gggactgggc aaggcatcac tctggtgacc cagagataga tgaagctttg aagaatggag   240

aagatgctgg gctttctttg gcgaagaaag tatatgccta tattcacagg aatgggtaca   300

aaacaaagct gatggccgct gccataccga acaagcagga cgtattta   348

<210>   531
<211>   525
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   531

gggggtgggg gttgactgtc atgttcgcgt ggcggtacaa agtcgaaatt gnccgggcca   60

cccacgcaac cgcatcgcga ccgccaaagc ccgcgacttt cagcctacgg aggccacatc   120

tggccgcgcg ggccgccgct ggcaacgcac ccacgtcccc ggtccgcgag gtcgtcactg   180

agctcgacgc ggtcgccggc ttcagcgaga tcgtgccgga caccgtcgtg ttcgatgatt   240

tcgagaggtt cgcacccacg gcggccacag tgagctcgtc gctgctgctt gggatcactg   300

ggctcccaga cactaagttc aagagtgcga tagatactgc actggcagat ggtgagtgca   360

acgcactgga gaaggctgat gacatgatgt cctgttacct caccaaggct cttgcatatg   420

ttggcgctga actggctcat caagtccctg ggagagtttc gacggaaata gatgctcggt   480

tagcttatga cacccagggc ataatccaca gggtacatga actgt   525

<210>   532
<211>   423
<212>   DNA

179

<213>   Zea mays

<223>   unsure at all n locations
<400>   532

agagcctcca aaacctcgca acaaccccgt gacacccaca cccatccgcc ctgcgcctcc   60

tcgcgctccc caccaacccc gacgagcggc gatgaccggc acggtgtcca agctggcggc   120

gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgccg caatcgcctt   180

cgccccctcc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga tcccctccgt   240

cattgcgatg gcttctgcca aggaaggaaa tggtgcaccg accaagaaaa cctcgcttca   300

cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc gacctgtcac   360

cgacttgctg ccccttatcg ccagcggtgt tcgtggagtc accagcaacc ctgcaattnt   420

cca   423

<210>   533
<211>   429
<212>   DNA
<213>   Zea mays

<400>   533

cggacgcgtg ggagcctcca aaacctcgca acaaccccgt gacacccaca cccatccgcg   60

ctgcccctcc tcgcgctccc caccaacccc gacgagcggc gatgaccggc acggtgtcca   120

agctggcggc gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgccg   180

caatcgcctt cgccccctcc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga   240

tcccctccgt cattgcgatg gcttctgcca aggaaggaaa tggtgcaccg accaagaaaa   300

cctcgcttca cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc   360

gacctgtcac cgacttgctt gcccttatcg gcagcggtgt tcgtggagtc accagcaacc   420

ctacaattt   429

<210>   534
<211>   283
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   534

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ctcttgggaa tatgtggcct tccanacacc attttttagga atgctgtgga aatggcttag    60

ctgattctga gtgttatgga cttgaaaatc ctaacgcgcg attgtcttgt tttgtcaaca   120

aggctttcgc gaatatcggt agtgacatgg caaagcttgt ccctggccgt gtttcgacag   180

aagtggatgc gcggcttgct tatgacacac atgccattat caggaaggtg catgacctgt   240

tgaagttgta catgatannt atgtacctcc gcaacgtctg ttg                     283
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<210>   535
<211>   250
<212>   DNA
<213>   Glycine max

<400>   535

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agtggacact ctcattgaca aggcccttga gaaaattggc accccagatg ctcttaatct    60

acgtgggaag gtaactgttt attgttttcc aaactaattt ctattcttgg ctttggattt   120

attcactttt caaatgtcaa atatgctctt cggattgcat attgaatttt acaggcagca   180

gtagcccaag cagcattggc ttaccagctc taccaaagga aattttctgg tcaaagtggg   240

aactctaagt                                                          250
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<210>   536
<211>   333
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   536

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tgtttgatag aaataatgga tcggaacggg ccaaagatca naagtacaat tcttcaccat    60

ctctatgata agcagagaca gagcccttac tatgacaatc tctgtcgccc tgtttcagat   120

ttgcttccat ttattgccaa tgggatcaga ggtgtcacta ccaacccagc ggtactcact   180

actcagtttt ttcttcacct gaaaacatta ctcttctcca tttggtttta tttttatcta   240

gtttctgtgt gttggttata ataacttttc agtgttctca catcgcagat ttttgaaaga   300

gctatttcat cctcaaatgc ctacgatgat cag                                333
```

<210>   537
<211>   280
<212>   DNA
<213>   Glycine max

<400> 537

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ggacaccctc attgacaagg cccttgagaa aattggcacc ccagtggccc ttaatctacg   60

cgggaaggca gcggtagccc aagcagcatt ggcttaccag ctctaccaaa ggaaattttc  120

tggtccaagg tgggaagctc tagttaaaaa gggggccaag aagcaaaggc tcctctgggc  180

ctcaaccagt gtaaagaatc ctgcctattc tgacacctta tatgttgctc ctcttattgg  240

acccgacact gtatcaacaa tgccagacca agcccttcaa                        280
```

<210>   538
<211>   294
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   538

```
gtgttgcctc tttctttgtc agtagagtgg acactctcca ttgacaaggc ccttgagaaa   60

attggcaccc cagaggctct taatctacgt gggaaggcag cagtagccca agcagcattg  120

gcttaccacc tctaccaaag gaaattttct ggtccaaggt gggaagctct agttaaaaag  180

ggggccaaga agcaaaggct ctttgggcct caaccagtgt aaagaaccct gcctattctg  240

acacntatat gttgctcctc tattggaccc gacatgatca accagccaga ccaa        294
```

<210>   539
<211>   221
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   539

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gtagagtgga caccctcatt gacaaggccc ttgagnaaat tggcacccca gtggccctta   60

atctacgcgg gaaggcagcg gtagcccaag cagcattggc ttaccagctc taccaaagga  120

aattttctgg tccaaggtgg gaagctctag ttaaaaaggg ggccaagaag caaaggctcc  180

tctgggcctc aaccagtgta aagaatcctg cctattctga c                     221
```

<210>   540
<211>   299
<212>   DNA
<213>   Glycine max

<400>   540

tattctcagt ttgcggtgtt tgatagaaat aatggatcgg aacgggccaa agatcaaaag   60

tacaattctt caccatctct atgagaagca gagacagagc ccttactatg acaatctctg   120

tcgccctgtt tcaggtttgc ttccatttat tgccaatggg atcagaggtg tcactaccaa   180

cccagcgatt tttgaaagag ctatttcatc ctcaaatgcc tacgatgatc agttgaggga   240

attggtaggg gcagggaagg acatagaaag tgcttattgg gaattggttg tgaaggaca   299

<210>   541
<211>   240
<212>   DNA
<213>   Glycine max

<400>   541

gaagcagaga cagagccctt actatgacaa tctctgtcgc cctgtttcag atttgcttcc   60

atttattgcc aatgggatca gaggtgtcac taccaaccca gcgatttttg aaagagctat   120

ttcatcctca aaatgctacg atgatcagtt gagggaaatg gtcagggcca ggaaggacat   180

agaaagtgct tattgggaat tggttgtgaa ggacatacag gatacttgca aacttctgga   240

<210>   542
<211>   278
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   542

tttcacttgc tctctctttg ctcttatccc ttttcctttn tctncttttc ctttgggttt   60

tctattctca gtttgcggtg tttgatagaa ataatggatc ggaaccggcc aaagatcaaa   120

agtacaattc ttcaccatct ctatgagaag cagagacaga gcccttacta tgacaatctc   180

tgtcgccctg tttcagattt gcttccattt attgccaatg ggatcagagg tgtcactacc   240

aacccagcga ttttttganag agctatttca tcctcaag   278

<210>   543
<211>   254
<212>   DNA
<213>   Glycine max

<400>   543

atttttcttt tttcttcttt tcctttgggt tttctattct cagtttgcgg tgtttgatag   60

aaataatgga tcggaacggg ccaaagatca aaagtacaat tcttcaccat ctctatgaga   120

agcagagaca gagcccttac atgacaatct ctgtcgccct gtttcagatt tgcttccatt   180

tattgccaat gggatcagag gtgtcactac caacccagcg attttgaaa gagctatttc   240

atcctcaaat gcct   254

<210>   544
<211>   236
<212>   DNA
<213>   Glycine max

<400>   544

caagaagcaa aggctccttt gggcctcaac cagtgtaaag aaccctgcct attctgacac   60

cttatatgtt gctcctctta ttggacccga cactgtatca accatgccag accaagccct   120

tcaagcattt attgatcatg gtaccgtatc caggacaata gactcaaatg catctgaagc   180

tgaaggaata tacaatgctc tccagaaatt gggtattgac tggagctttg ttggtt   236

<210>   545
<211>   260
<212>   DNA
<213>   Glycine max

<400>   545

ggctcctttg ggcctcaacc agtgtaaaga accctgccta ttctgacacc ttatatgttg   60

ctcctcttat tggacccgac actgtatcaa ccatgccaga ccaagccctt caagcattta   120

ttgatcatgg taccgtatcc aggacaatag actcaatgca tctgaagctg aaggaatata   180

caatgctctc cagaaattgg gtattgactg gagctttgtt ggttcccagc ttgaacttga   240

aggagtggac tcgtttaaga   260

<210>   546
<211>   250
<212>   DNA
<213>   Glycine max

<400>   546

184

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gaaggaatat acaatgctct ccagaaattg ggtattgact ggagctttgt tggttcccag    60

cttgaacttg aaggagtgga ctcgtttaag aagagctttg acagcctcct ggattctctg   120

caagagaagg caaactctct taagttggtc agccattgaa gtgtgaacgt catagttagt   180

aatgcagtgc tatgtatgaa gtgatttatg gattaataaa aggcagtggc tgtgcatttt   240

gtgctgctgt                                                          250


<210>        547
<211>        265
<212>        DNA
<213>        Glycine max

<400>        547

ctcgagccgg gaatatacaa tgctctccag aaattgggta ttgactggag ctttgttgga    60

ctcccagctt gaacttgaag gagtggactc gtttaagaag agctttgaca gcctcctgga   120

ttctctgcaa gagaaggcaa actctcttaa gttggtcagc cactgaagtt tgaacgtcat   180

ggttagtaat gcagtgctgt gtatgatggc atctatggat taataaaagg cagcggctgt   240

gcattttgtg ctgctgcaaa tgtgc                                         265


<210>        548
<211>        228
<212>        DNA
<213>        Glycine max

<400>        548

cgtcatggtt gctcctctta ttggacccga cactgtatca accatgccag accaagccct    60

tcaagcattt attgatcatg gtaccgtatc caggacaata gactcaaatg tgcttcatgg   120

agtcatttat ttagacgata gtgatacaat gtaaatggga aaaattgtcc gcttcaagtc   180

aagcgttttg ttttttcccc actatacaat ggttgtgcgt ttatgttt               228


<210>        549
<211>        224
<212>        DNA
<213>        Glycine max

<400>        549

cgtcatggat gctcctctta ttggacccga cactgtatca accatgccag accaagccct    60
```

tcaagcattt attgatcatg gtaccgtatc caggacaata gactcaaatg tgcttcatgg   120

agtcatttat ttagacgata gtgatacaat gtacttggga aaaattgtcc gcttcaagtc   180

aagcgttttg ttttttcccc actatacaat ggttgtgcga ttat   224

<210>   550
<211>   238
<212>   DNA
<213>   Glycine max

<400>   550

gatcaaatgc tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga   60

tctttatgag aaagaagggc agagtccatg gtatgataat ctctgcagac ctgttacaga   120

ccttcttcct cttatagcaa gtggtgtcag aggcgtcact agcaaccctg cgattttttca   180

gaaagctatc tcatcatcga atgcttacaa tgatcagttc agggaacttg tgcaagca   238

<210>   551
<211>   269
<212>   DNA
<213>   Glycine max

<400>   551

ggaatggaag tcctgcaaag aggacagtgc ttcatgatct ttatgagaaa gaagggcaga   60

gtccatggta tgataatctc tgcagacctg ttacagacct gcttcctctt atagcaagtg   120

gtgtcagagg cgtcactagc aaccctgcga tctttcagaa agctatctca tcatcgaatg   180

cttacaatga tcagttcagg gaacttgtgc aaacagggaa agacattgaa agtgcatatt   240

gggaacttgt agtgaaggat atccaagat   269

<210>   552
<211>   272
<212>   DNA
<213>   Glycine max

<400>   552

aattaacctc tccgcttccc tccgatccat tcactccctc cctcttaaaa cctccttgcg   60

gatcaaatgc tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga   120

tctttatgag aaagaagggc agagtccatg gtatgataat ctctgcagac ctgttacaga   180

186

ccttcttcct cttatagcaa gtggtgtcag aggcgtcact agcaaccctg cgatttttca   240

gaaagctatc tcatcatcga atgcttacaa tg   272

<210>   553
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<212>   DNA
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<400>   553

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taatctctgc agacctgtta cagacctgct tcctcttata gcaagtggtg tcagaggcgt   180

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<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   554

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catgatcttt atgagaaaga acngcagagt ccatggtatg ataatctctg cagacctgtt   180

acagaccttc ttcctcttat agcaagtggt gtcagaggng tcactagcaa ccctgng   237

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<212>   DNA
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<400>   555

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gatctttatg agaaagaagg gagagtccat ggtatgataa tctctgcaga cctgttacag   180

actgcttctc ttatagcaag tggtgtcaga ggcgtcatta gcaacctgcg catctttcag   240

aaagctatct catcatcgaa tgttacatga   270

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<212>   DNA
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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc   120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat   180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg   240

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gcggatcaaa tgctcccaaa cagatgggaa tggaagtcct gcaaagagga cagtgcttca   120

tgatctttat gagaaagaag ggcagagtcc atggtatgat aatct   165

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ctccgcttcc ctccgatcca ttcactccct ccctcttaaa acctccttgc ggatcacctg   180

ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg atctttatga   240

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<210>   559
<211>   275

<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   559

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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc   120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat   180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg   240

aganagaagg gcagagtcca tggtatgata atctc   275

<210>   560
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<212>   DNA
<213>   Glycine max

<400>   560

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tccgcttccc tccgatccat tcactcctcc ctcttaaaac tccttgcgg atcaaatgct   180

cccaaacaga tgggaatgga agtcctgcaa agaggacagt gcttcatgat ctttatgaga   240

aagaagggca gagtccatgg tatgataatc tctg   274

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<400>   561

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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc   120

tctccgcttc cctccgatca ttcactccct ccctcttaaa acctccttgc ggatcaaatg   180

ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg atctttatga   240

gaaagaaggg cagagtccat ggtatgataa   270

<210>   562

189

<211> 265
<212> DNA
<213> Glycine max

<400> 562

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ccccagagat tctcgcttcc tctccttcaa tccttcttcc aacgctatta attacaaaat   120

taacctctcc gcttccctcc gatccattca ctccctccct cttaaaacct ccttgcggat   180

caaatgctcc caaacagatg ggaatggaag tcctgcaaag aggacagtgc ttcatgatct   240

ttatgagaaa gaagggcaga gtcca                                         265
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<210> 563
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<212> DNA
<213> Glycine max

<400> 563

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gattctcgct tcctctcctt caatccttct tccaacgcta ttaattacaa aattaacctc   120

tccgcttccc tccgatccat tcactccctc cctcttaaaa cctccttgcg gatcaaatgc   180

tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga tctttatgag   240

aaagaagggc agagtccatg g                                             261
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<210> 564
<211> 282
<212> DNA
<213> Glycine max

<400> 564

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agagattctc gcttcctctc cttcaatcct tcttccaacg ctattaatta cacaattaac   120

ctctccgctt ccctccgatc cattcactcc ctccctctta aaacctcctt gcggatcaaa   180

tgctcccaaa cagatgggaa tggaagtcct gcaaagagga cagtgcttca tgatctttat   240

gagaaagaag gcagagtcc atggtatgat aatctctgca ga                       282
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<210> 565

190

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<211>       290
<212>       DNA
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tccacttgct tccttatcag aagcgcttcg cccccgagat tctcgcttcc tcaccttcaa   120

accttcttcc atcgctttta atcacaaaac taacctatcc gcttccctcc gatccattca   180

ctcgctccct cttaaaacct ccttacggat caaatgctcc caaacagatg ggaatggaag   240

tcctgcaaag aggacagtgc ttcatgatct ttatgagaaa gaagggcaga               290


<210>       566
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<212>       DNA
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<400>       566

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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc   120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat   180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg   240

agaaagaagg gcagag                                                    256


<210>       567
<211>       271
<212>       DNA
<213>       Glycine max

<400>       567

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acttgcttcc ttatcagaag cgcttcgccc ccgagattct cgcttcctca ccttcaaacc   120

ttcttccatc gcttttaatc acaaaactaa cctatccgct tccctccgat ccattcactc   180

gctccctctt aaaacctcct tacggatcaa atgctcccaa acagatggga atggaagtcc   240

tgcaaagagg acagtgcttc atgatcttta t                                   271


<210>       568
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191

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<211>      284
<212>      DNA
<213>      Glycine max

<400>      568

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cttccaacgc tattaattac aaaattaacc tctccgcttc cctccgatcc attcactccc    180

tccctcttaa aacctccttg cggatcaaat gctcccaaac agatgggaat ggaagtcctg    240

caaagaggac agtgcttcat gatctttatg agaaagaagg gcag                     284


<210>      569
<211>      264
<212>      DNA
<213>      Glycine max

<400>      569

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cttccttatc agaagcgctt cgcccccgag attctcgctt cctcaccttc aaaccttctt    120

ccatcgcttt taatcacaaa actaacctat ccgcttccct ccgatccatt cactcgctcc    180

ctcttaaaac ctccttacgg atcaaatgct cccaaacaga tgggaatgga agtcctgcaa    240

agaggacatg cttcatgatc ttta                                          264


<210>      570
<211>      250
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ttcgccccag agattctcgc ttcctctcct tcaatccttc ttccaacgct attaattaca    120

aaattaacct ctccgcttcc ctccgatcca ttcactccct ccctcttaaa acctccttgc    180

ggatcaaatg ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg    240

atctttatga                                                          250


<210>      571
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<211>   272
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<400>   571

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cttccttatc agaagcgctt cgcccccgag attctcgctt cctcaccttc aaacctactc   120

ccatcgcttt taatcacaaa actaacctat ccgcttccct ccgatccatt cactcgctcc   180

ctcttaaaac ctccttacgg atcaaatgct cccaaacaga tgggaatgga agtcctgcaa   240

cgaggacagt gcttcatgat ctttatgaga aa   272

<210>   572
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cacttgcttc cttatcagaa gcgcttcgcc cccgagattc tcgcttcctc accttcaaac   120

cttcttccat cgcttttaat cacaaaacta acctatccgc ttccctccga tccattcact   180

cgctccctct aaaacctcc ttacggatca aatgctccca aacagatggg aatggaagtc   240

ctgcaaagag gacagtgctt catgatcttt at   272

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<213>   Glycine max

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cctctccttc aatccttctt ccaacgctat taattacaaa attaacctct ccgcttccct   120

ccgatccatt cactccctcc ctcttaaaac ctccttgcgg atcaaatgct cccaaacaga   180

tgggaatgga agtcctgcaa agaggacagt gcttcatgat ctttatgaga aagaagg   237

<210>   574
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193

<213>   Glycine max

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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc   120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat   180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg   240

agaaagaagg g   251

<210>   575
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cttccttatc agaagcgctt cgcccccgag attctcgctt cctcaccttc aaaccttact   120

ccatcgcttt taatcacaaa actaacctat ccgcttccct ccgatccatt cactcgctcc   180

ctcttaaaac ctccttacgg atcaaatgct cccaaacaga tgggaatgga agt   233

<210>   576
<211>   279
<212>   DNA
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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc   120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat   180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg   240

agaaagacgg gcagagtcca tggtatgatc atctctgca   279

<210>   577
<211>   244
<212>   DNA
<213>   Glycine max

194

<400>   577

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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc ctccgatcca ttcactccct ccctcttaaa acctccttgc ggatcaaatg 180

ctcccaaaca gatgggaatg gaagtcctgc aaagaggaca gtgcttcatg atctttatga 240

gaaa   244

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tcgcttcctc tccttcaatc cttcttccaa cgctattaat tacaaaatta acctctccgc 120

ttccctccga tccattcact ccctccctct aaaacctcc ttgcggatca aatgctccca 180

aacagatggg aatggaagtc ctgcaaagag gacagtgctt catgatcttt atgagaaaga 240

gggcagagt   249

<210>   579
<211>   245
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gagattctcg cttcctctcc ttcaatcctt cttccaacgc tattaattac aaaattaacc 120

tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaa   245

<210> .   580
<211>   293
<212>   DNA
<213>   Glycine max

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gacattgaaa gtgcatattg ggaacttgta gtgaaggata tccaagatgc ttgcagacta   120

tttgaaccaa tctatgatca aacagatggt ggtgatggta tgtttctgtt gaagtatctc   180

ctaggctcgc tgatgacact gagggaacca tagaagctgc aaaatggctt cataaagtgg   240

ttgatcgccc caatgtgtat attaagattc ctgctacaga ggcatgtgtg cct   293

<210>   581
<211>   271
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   581

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tcagaaagct atctcatcat cgaatgctta caatgatcag ttcagggaac ttgtgcaaac   120

agggaaagac attgaaagtg catattggga acttgtagtg aaggatatcc aagatgcttg   180

cagactattt gaaccaatct atgatcaaac agatggtggt gatgggtatg tttctgtnga   240

agtatctcct aggctcgctg atgacactga g   271

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<212>   DNA
<213>   Glycine max

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gtttctgttg aagtatctcc caggctcgct gatgacactg agggaaccat agaagctgca   120

aaatggcttc ataaagtggt tgatcgcccc aatgtgtata ttaagattcc tgctacagag   180

gcatgtgtgc cttcaattaa ggaagttatt gctaatggga taagtgtgaa tgtgacgctg   240

atattctctc ttgcaagata tgaagctgta atag   274

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196

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ctcccaggct cgctgatgac actgagggaa ccatagaagc tgcaaaatgg cttcataaag   180

tggttgatcg ccccaatgtg tatattaaga ttcctgctac agaggcatgt gtgccttcaa   240

ttaaggacgt tattgctaat gggataa   267

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accaatctat gatcaaacag atggtggtga tgggtatgtt tctgttgaag tatctcctag   120

gctcgctgat gacactgagg gaaccataga agctgcaaaa tggcttcata aagtggttga   180

tcgccccaat gtgtatatta agattcctgc tacagaggca tgtgtgcctt caattaagga   240

agttattg   248

<210>   585
<211>   253
<212>   DNA
<213>   Glycine max

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gatgcttgca aattatttga accaatctat gatcaaacag atggtggtga tggctatgtt   180

tctgttgaag tatctcccag gctcgctgat gaacctgagg gaaccatagc agctgcaaaa   240

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197

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gtgacgctga tattctctct tgcaagatat gaagctgtaa ttgatgcata cttggatggt   180

cttgaggcat ctgagttaaa tgacctctct agagttacaa gtgttgcctc tttcttcgtc   240

agtagagtgg aca   253

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<400>   587

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cctgcagact atttgaacca atctatgatc aaacagatgg tggtgatggg tatgtttctg   120

ttgaagtatc tcctaggctc gctgatgaca ctgagggaac cattgaagct gcaaaatggc   180

ttcataaagg gttgatcgcc ccaatgtgta tattaagatt cctgctacag aggcatgtgt   240

gccttcaatt aaggaagtta ttgc   264

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<400>   588

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gtggacactc tcattgaaag gcccttgaga aaattggcac cccagaggct cttaatctac   180

gtgggaaggc agcagtagcc caagcagcat tggcttacca gctctaccaa aggaaatttt   240

ctggtccaag gtgggaagct cta   263

<210>   589
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198

<400>   589

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gcttacttgg atggtcttga ggcatctggg ttaaatgacc tctctagagt tacaagtgtt   120

gcctctttct ttgtcagtag agtggacact ctcattgaca aggcccttga gaaaattggc   180

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cagc   244

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tgggaacttg tagtgaagga tatccaagat gcttgcagac tatttgaacc aatctatgat   120

caaacagatg gtggtgatgg gtatgtttct gttgaagtat ctcctaggct cgctgatgac   180

actgagggaa ccatagaagc tgcaaaatgg cttcataaag tggttgat   228

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gaatgtgacg ctgatattct ctcttgcaag atatgaagct gtaatagatg cttacttgga   180

tggtcttgag gcatctgggt taaatgacct ctctagagtt acaagtgttg cctctcactt   240

tgtcagtaga gtggacactc tcatt   265

<210>   592
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<212>   DNA
<213>   Glycine max

<400>   592

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aacagggaaa gacattgaaa gtacatattg ggaacttgta gtgaaggata tccaagatgc   120

ttgcagacta tttgaaccaa tctatgatca aacagatggt ggtgatgggt atgtttctgt   180

tgaagtatct cctaggctcg ctgatgacac tgagggaacc atagaagctg caaaatggct   240

tcataaagtg gttgatcgcc ccaatgtgta tattaagatt c   281

<210>   593
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<213>   Glycine max

<223>   unsure at all n locations
<400>   593

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aaagtgcata ttgggaactt gtagtgaagg atatcnaaaa tgcnaaaaan gananttgaa   120

accaatctat gancaaacag atggnggtga tgggtatgtt tctgttgaag tatctcctag   180

ggctcgctga tgaacactga gggaaccata gaagctgcaa aatggcttca taaagtggnt   240

gatcggccca atgtgtatat taagattcct gnttacagag g   281

<210>   594
<211>   260
<212>   DNA
<213>   Glycine max

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aaatgacctc tctagagtta caagtgttgc ctctttcttt gtcagtagag tggacactct   180

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agagttacaa gtgttgcctc tttcttcgtc agtagagtgg acaccctcat tgacaaggcc   180

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caatgtgtat attaagattc ctgctacaga ggcatgtgtg ccttcaatta aggaagttat   180

tgctaatggg ataagtgtga atgtgacgct ga   212

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<223>   unsure at all n locations
<400>   597

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cgcatcatcg aaggnttacn atgatcngtt cagggaactt ggtgcaagca gggaaagaca   120

ttgaaagtgc atattgggaa ctngtagtga aggatatcca agatgcttgc aaattatttg   180

aaccantcta tnatcaaaca gatggtggtg atggctatgt ttctgttgaa gtatctccca   240

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<400>   598

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201

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gcccttaatc tacgcgggaa ggcagcggta gcccaagcag cattggctta ccagctctac   240

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ctctagagtt acaagtgttg cctctttctt cgtcagtaga gtggacaccc tcattgacaa   180

ggcccttgag gaaattggca ccccagtggc ccttaatcta cgcgggaag               229


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gt                                                                  182


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<400>      601

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tcttgtggca tgactgatct ctctaaggtt tcaagtgcag cagcattcta catcagtaga   180
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202

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tctggtccaa gatgggaacg cttggagaat agaagtgcca agaagcagag gttgatgtgg   360

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ttaatctacg tgggaaggca acggtagccc aagcagcatt ggcttaacag ctctaccaaa   180

gaaattttct ggtccaaagt gggaagctct agttaaaaag ggggccaaga agcaaaggct   240

cctctgggcc ttaaccagtg taaagaatcc tgcctattct gacaccttat atgttgctcc   300

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gatcagaggt gtcactacca acccagcgat ttttgaaaga gctatttcat cctcaaatgc   180

ctacgatgat cagttgaggg aattggtagg ggcagggaag gacatagaaa gtgcttattg   240

ggaattggtt gtgaaggaca tacaggatac ttgcaaactt ctggagccaa tttacaatga   300

aacagatggg gaagatggac atgtatctct tgcagtttcc ccaaagctag caaatgacac   360

caaggggaca attgaggcag caaaatggct tcataatat                         399
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203

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<213>      Glycine max

<223>      unsure at all n locations
<400>      604

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tcaaatgcat ctgaagctga aggaatatac aatgctctcc agaaattggg tattgactgg  120

agctttgttg gttcccagct tgaacttgaa ggagtggact cgtttaagaa gagctttgac  180

agcctcctgg attctctgca agagaaggca aactctctta agttggtcag ccactgaagt  240

ttgaacgtca tggttagtaa tgcagtgctg tgtatgatgg catctatgga ttaataaaag  300

gcagcggctg tgcattttgt gctgctgcan atgtgcttca tggagtcatt tatttagacg  360

atagtgatac aatgtaaatg ggaaaaattg tccgcttcaa gtcaagcgtt ttgttttt    418



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<211>      396
<212>      DNA
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<400>      605

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tcactccctc cctcttaaaa cctccttgcg gatcaaatgc tccaaacaga tgggaatgaa  180

gtcctgcaaa gaggacagtg cttcatgatc tttatgagaa agaagggcag agtccatggt  240

atgataatct ctgcagacct gttacagacc ttcttcctct tatagcaagt ggtgtcagag  300

gcgtcactag caaccctgcg atttttcaga aagctatctc atcatcgaat gcttacaatg  360

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tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagatag gcagagtcca tggtatgata atctctgcag acctgttaca gaccttctta 300

ctcttatagc aagtggtgtc agaggcgtca ctagcaaccc tgcgattttt cagaaagcta 360

tctcatcatc gaatgcttac aatgatcagt tcaaggaact tgtgcaagca tggaaagaca 420

ttgaaagt   428

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atccattcac tccctgccta ttaaaaccta cttgcggatc aaatgctccc aaacagatgg 180

gaatggaagt cctgctaaga ggacagcgct tcatgatctt tatgagaaag aagggcagag 240

tccatggtat gataatctct gcagacctgt tacagagctt gttcctgtta tagcacgtgg 300

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ttacaatgat cag   373

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taattacaaa attaacctct ccgcttccct ccgatccatt cactccctcc ctcttaaaac 180

ctccttgcgg atcaaatgct cccaaacaga tgggaatgga agtcctgcaa agaggacagt 240

gcttcatgat ctttatgaga aagaaaggca gagtccatgg tatgataatc tctgcagacc 300

205

tgttacagac cttcttcctc ttatagcaag tggtgtcaga ggcgtcacta gcaaccctgc   360

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aatggcctcc attttcaagc tctcaacgcc atctccagct gcttccttat cagaagcgct   120

tcgccccaga gattctcgct tcctctcctt caatccttct tccaacgcta ttaattacaa   180

aattaacctc tccgcttccc tccgatccat tcactccctc cctcttaaaa cctccttgcg   240

gatcaaatgc tcccaaacag atgggaatgg aagtcctgca aagaggacag tgcttcatga   300

tctttatgag aaagaagggc agagtccatg gtatgataat ctctgcagac ctgttacaga   360

ccttcttcct cttatagcaa gtggtgtcag aggcgtcact agcaaccctg cgatttt   417

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ttccgtttcc aagctctcaa cgccaaatcc acttgcttcc ttatcagaag cgcttcgccc   180

ccgagattct cgcttcctca ccttcaaacc ttcttccatc gcttttaatc acaaaactaa   240

cctatccgct tccctccgat ccattcactc gctccctctt aaaacctcct tacggatcaa   300

atgctcccaa acagatggga atggaagtcc tgcaaagagg acagtgcttc atgatcttta   360

tgagaaagaa gggcagagtc catggtatga taatctctgc agacctgtta caga   414

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206

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tctccgcttc cctccgatcc attcactccc tccctcttaa aacctccttg cggatcaaat 180

gctcccaaac agatgggaat ggaagtcctg caaagaggac agtgcttcat gatctttatg 240

agaaagaagg gcagagtcca tggtatgata atctctgcag acctgttaca gaccttcttc 300

ctcttatagc aagtggtgtc agaggcgtca ctagcaaccc tgcgattttt cagaaagcta 360

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ttgaagtgca tattgggaac ttgtaatgaa agat   454

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aacctctccg cttccctccg atccattcac tccctccctc ttaaaacctc cttgcggatc 180

aaatgctccc aaacagatgg gaatggaagt cctgcaaaga ggacagtgct tcatgatctt 240

tatgagaaag aagggcagag tccatggtat gataatctct gcagacctgt tacagacctt 300

cttcctctta tagcaagtgg tgtcagaggc gtcactagca accctgcgat ttttcagaaa 360

gctatctcat catcgaatgc ttacaatga   389

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gtctccttca atccttcttc caacgctatt aattacaaaa ttaacctctc cgcttccctc 120

cgatccattc actccctacc tcttaaaacc tacttgcgga tcaaatgctc ccaaacagat 180

207

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aatccatgga atgacaatct ctgcaaacct gttacagacc ttcttcctct tatagcaagt   300

ggtgtcagag gcgtcactag gcaccctgcg attttcaga aagctatctc atcatcgaat   360

gcttacaatg atcaattcaa ggaa                                         384


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gtctagagtt acaagtgttg cctctttctt tgtcagtaga gtggacac                408


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<400>      615

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gcaaaatggc ttcataaagt ggttgatcgc cccaatgtgt atattaagat tcctgctaca   180

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gcatctgggt aaatgacct ctctagagtt acaagtgttg cctctttctt tgtcagtaga   360

gtggacactc tcattgacaa ggcccttgag aaaattggca ccccagaggc tcttaatcta   420

cgtgggaagg cagc                                                   434
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gcttcataaa gtggttgatc gccccaatgt gtatattaag attcctgcta cagaggcatg  180

tgtgccttca attaaggaag ttattgctaa tgggataagt gtgaatgtga cgctgatatt  240

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gttaaatgac ctctctagag ttacaagggg ttgcttcttc tttgtcagta gagtggacac  360

tctcattgac aaagcccttg agaaaattgg caccccagag gctcttaatc tacgtgg     417


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<213>      Glycine max

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aatgacctct ctagagttac aagtgttgcc tctttctttg tcagtagagt ggacactctc  180

attgacaagg cccttgagaa aattggcacc ccagaggctc ttaatctacg tgggaaggca  240

gcagtggccc aagcagcatt ggcttaccag cgtctccgaa ggaaatgttc tggtccaagg  300

tgggaagctc tagttaaaaa tggggcca                                      328


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<400>      618

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209

agatgaagct ttgaagaatg gagaagatgc tgggctttct ttggcgaaga aagtatatgc   180

ctatattcac aggattgggt acaaaacaaa gctgatggcc gctgccatac ggaacaagca   240

ggacgtattt agccttctgg ggattgatta cattattgcc cactgaagat   290

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<212>   DNA
<213>   Zea mays

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atggtctact agaagtacag aaagccttca gagatgcggg gctgcaattc tcgaaacagg   180

gtgttgcaat tactcaagaa aattctctgt tggataacac tgctagaata gagggatggt   240

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<400>   620

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tcccaactcc ttcctccgga acaagatcga gaccgcactc gacaaaatcc tcgccttctc   120

ccaagatgtc atctctggaa agattctttc cccatctggt cgtttcactt caattctctc   180

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agtgtattga tatcaaggaa atgctatttg gtgcagcttt aatggatgag gaaacccgga   180

210

acactgtggt taaagcaaat ccagcagcat tgcttgcatt atgttggtat tgggcatcgg   240

aagggatagg caaaaaggat atggttg   267

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tgaaggtaag atttattgac aacatcgatc ctggtgggat tgatcatcaa attgctcaac   180

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agggggaact gctgaagc   258

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cacaacagct gaaacaatgt taaatgctcg aactcctaag gagtggatcg tttcttctct   180

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<212>   DNA
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<400>   624

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ggaaacagct gcatggaacc cggatggaag gaaagcctgt tgagggtttt aaccacagca   180

cttcaagttt gcttgcacga tatcttgctg tcaagccatc caccccgtat gatactaccg   240

211

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ggcaaggttg agcataagtc tttcttcatt ttgggag   337

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aggacttcag aaatgtctgc tgtgggttta cttccagctg cattgcaggg tattgatatc   180

aaggaaatgc tagctggtgc agctttaatg gatgaagaaa cccggaacac tgtggttaaa   240

gaaaatcc   248

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ttacttccag ctgcattgca gggtattgat atcaaggaaa tgctagttgg tgcagcttta   180

atggatgagg aaacccggaa cactgtggta tcacattatt aataacacgg acaacttgca   240

gtgatggcat gattatctat atgtgtcatg tcaacatgtt tatctttt   288

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ggataacact gccagaatag agggatggtt agctcggttt cctatgtttg actgggttgg   120

tggtaggact tcagaaatgt cagctgttgg tttacttcca gctgcattgc agggtattga   180

212

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taa                                                                 243


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<400>        628

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tttgattggg ttggtggtag dacttcagaa atgtcagctg tgggtttact tccagctgca  180

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tgctgaggca cttgcgcctg ataaccctcc actgaagata agatttattg acaacaccga  180

tcctgctggg attgatcatc aaattgctca actaggacct gaactggcaa ctactcttgt  240

aattgtcatt tctaagagcg gaggcacacc tgaaacccgc aatgggctac tggaag       296


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<212>        DNA
<213>        Zea mays

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taagatttat tgacaacaca gatcctgctg ggattgatca tcaaattgct caactaggac  180

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213

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ctttgggccc tcaatttgtt gctgaggcac ttgcgcctga taaccctcca ctgaagataa   180

gatttattga caacaccgat cctgctggga ttgatcatca aattgctcaa ctaggacctg   240

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atgg   304

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atcaatgcct atcatcagcc tggtgttgag gctgggaaaa aggcagcagg agaagtattg   180

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ccattgactc tagatgaaat tgcagatcgc tgc   273

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<212> DNA
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tatagatgaa attgcagatc gctgccattg ccctgaagat attgagatga tctacaaaat   180

agtccagcac atggctgcta acgacagagc aatcatagca gaaggcagct gtggctctcc   240

214

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ggttccgagc ctggatccgt gt   322

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atgaaattgc agatcgctgc cattgccctg aagatattga gatgatctac aaaatagtcc   180

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gcgttaaggt gtacctcggt gaat   264

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tttattgagg tcttgcgtga caggcctgct ggacatgatt ggagacttga acctggagtc   240

acgtgtggtg actatttgtt tgggatgttg cagggaaccc gttctgctct ttatgcaaat   300

gaccgggagt   310

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<212>   DNA
<213>   Zea mays

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tctggatggc aaccgggtaa atcaagggct atctgtatat ggaaacaaag gaagtactga   120

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cgaggtcttg cgtgacaggc ctgctggtca tgattgggag cttgaacctg gagtcacatg    240

tggtgactat ttgtttggga tgttgcaggg aacacgttct gctctttatg caaat         295


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<212>      DNA
<213>      Zea mays

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aacctggagt cacatgtggt gactatttgt ttaggatgtt gcaggaaca cgttctgctc    180

tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca agaggtaact cctagagctg    240

ttggagcact ggttgcactt tatgaacgtg ctgtggggct ttatgcttct ttg          293


<210>      638
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<212>      DNA
<213>      Zea mays

<400>      638

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gattgggagc ttgaacctgg agtcacgtgt ggtgactatt tgtttgggat gttgcaggga    120

acccgttctg ctctttatgc aaatgaccgg gagtctatct ctgttactgt gcaagaggta    180

actcctagag ctgttggagc actgattgca ctttatgaac gtgctgtggg gatttatgct    240

tctttggtaa atatcaatgc ctatcatcag cctggtgttg a                        281


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atcagaaggg ataggcaata aggatatggt tgtacttcct tacaaggata gtttgttgct    120
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216

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cgcttacatt cagcagctga gag                                           263


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caataaggat atggttgtac ttccttacaa ggatagtttg ttgcttttga gtagatattt   180

gcaacaactt gtcatggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa   240

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attatgttgg tattgggcat cagaagggat aggcaataag gatatggttg tacttcctta   180

caaggatagt ttgttgcttt tgagtagata tttgcaacaa cttgtcatgg aatctcttgg   240

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tgcttcctta taaggatagt ttgttacttt tgagtagata tttgcaacaa cttgtcatgg   180

gatctcttgg aaaagaattc gacctggatg gcaaccgtgt taaacaaggg ctaactgtat   240

atggtaacaa aggaagcact gaccagcatg cttacattca gcagctgaga gaaggtgt   298

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gagtctatct ctgttacgtg caagaggtaa ctcctagagc tgttggagca ctgatttcac   180

tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc   240

ctggtgttga ggctgggaaa aaggcagcag gaga   274

<210>   644
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<400>   644

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attgggcatc agaagggata ggcaataagg atatggttgt acttccttac aaggatagtt   180

tgttgctttt gagtagatat ttgcaacaac ttgtcatgga atctcttggg aaagaatttg   240

atctggatgg caaccgggta aatcaaggct atctgtatat ggaa   284

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<212>   DNA
<213>   Zea mays

<400>   645

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218

taaagaaaat ccagcagcat tgcttgcatt atactggtat tgggcatcag aagggatagg   120

caataaggat atggttgtac ttccttacaa ggatagtttg ttgcttttga gtagatattt   180

gcaacaactt gtcatggaat ctcttgggaa agaatttgat ctggatggca accgggtaaa   240

tcaagggcta tctgtatatg gaaacaaagg aagcactgac cagcacgctt acattcagca   300

gctgag   306

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tggtcatgaa tgggagcttg aacctggagt cacatgtggt gactatttgt ttgggatgtt   120

gcagggaaca cgttctgctc tttatgcaaa tgaccgtgaa tctatctctg ttactgtgca   180

agaggtaact cctagagctg ttggagcact ggttgcactt tatgaacgtg ctgtggggct   240

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cctgctggtc atgattggga gcttgaacct ggagtcacgt gtggtgacta tttgtttggg   120

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<212>   DNA
<213>   Zea mays

<400>   648

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219

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aactcctaga gctgttggag cactggttgc actttatgaa cgtgctgtgg ggctttatgc 240

ttcttggtaa atatcaatgc tatcatcaac tggtg   275

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tgtatatgga aacaaaggaa gcactgacca gcacgcttac attcagcagc tgagagaagg 180

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<210>   650
<211>   285
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   650

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cccggaacac tgtggttaaa gaaaatccag cagcattgct tgcattatgt tggtattggg 120

catcagaagg gataggcaat aaggatatgg ntgtacttcc ttacaaggat agtttgttgc 180

ttttgagtag atatttgcaa caacttgtca tggaatctct tgggaagaat tgatctggat 240

gcaaccggta aatcaaggct atctgatatg aaacaaagaa gactg   285

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<212>   DNA
<213>   Zea mays

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tcagttgttt ttgacatgcc aattgctgag ttctgacttg gcaaggttga gcataagtct   120

ttcttcattt tgggagttat cacagagcca gtttggcagt gctgtagttt tggttttacc   180

tactctttgt agaagaaaag tgaagagtgg atattatgga acaaaatata tacctacggc   240

agcacgcagc atgatgaaac atattta   267

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aatctgcggc acggagcagt ggaaggccct ccaggcgcac gtcggcgcga ttcagaagac   120

gcacctgcgc gacctgatgg ccgacgccga ccgatgcaag gcaatgacgg ctgagtatga   180

agggatcttt ctggattact cgagacagca ggcgactggt gaaacatgga gaagccctta   240

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<212>   DNA
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gagcagtgga aggccctcca ggcgcacgtc ggcgcgattc agaagacgca cctgcgcgac   180

ctgatggccg acgccgaccg atgcaaggca atgacggctg agtatgaagg gatctttctg   240

gattactcga gacagcaggc gactggtgaa acatggagaa gctcttaaat tg   292

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<212>   DNA
<213>   Zea mays

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221

cggaagccat ggcgtcggca gcgctaatct gcggcacgga gcagtggaag gccctccagg   180

cgcacgtcgg cgcgattcag aagacgcacc tgcgcgacct gatggccgac gccgaccgat   240

gcaaggcaat gacggctgag tatgaaggga tctttctgga ttactcgaga cagcaggcga   300

ctggtgaaac catggagaag   320

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tgtctccccc gaccggcgat cgctatcgac ttgtagcgga agccatggcg tcggcagcgc   180

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ggatgcagca ggccttcgtc gacatgcggg agctcgagaa gggcgccatc gccaaccccg   180

acgagggtcg catggtgggc cactactggc tccgcgaccc ggccctcgct cccaactcct   240

222

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attttggtga acctcgaact aatggccagc acagcttcta tcaattaatc catcagggaa   180

gggttatccc ttgcgacttt attggtgttg ttaaaagtca gcagcctgtt tacttgaaag   240

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ttgcttatgg aaagactcct gaaca                                          325


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tgagacaagt gaaattgatt ttggtgaacc tggaactaat ggccagcaca gcttctatca   180

attaatccat cagggaaggg ttatcccttg cgactttatt ggtgttgtta aaagtcagca   240

gcctgtttac ttgaaagggg aaactgtgag taatcatgat gagcttatgt ccaatttctt   300

tgcccaacct gatgct                                                    316


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<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
<400>      660

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tcgtttcttc tcttgggcca caggctgttg ccaaacatat gattgctgtc agcactaatc   120
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223

ttaagcttgt gaaggagttt ggaattgacc caaacaatgc ttttgccttt tgggactggg 180

ttggcggccg ttatagtgtt tgcagtgctg ttggcgttct gccattatct cttcagtatg 240

gctttccaat tgtccagaaa tttttggagg gagcttccag tatcgacaac cacttctact 300

<210>   661
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<212>   DNA
<213>   Zea mays

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ctcctgaaca gttgcacagt gagaaagttc cagataatct tatccctcat aagacttta 120

agggcaaccg gccatcacta agtttgcttc tgcctacact atctgcatat gaggttggac 180

agcttttatc catctatgag caccggattg cagttcaggg cttcatatgg ggaattaact 240

catttgacca ctagggagtg gagctaggga agtcactcgc ttctcaagtg aggaaacagc 300

tgcatggaac ccggatggaa ggacacctgt tgag   334

<210>   662
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<212>   DNA
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<400>   662

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atcccttgcg actttattgg tgttgttaaa agtcagcagc ctgtttactt gaaaggggaa 120

actgtgagta atcatgatga gcttatgtcc aatttctttg cccaacctga tgctcttgct 180

tatggaaaga ctcctgaaca gttgcacagt gagaaagttc cagaaaatct tatccctcat 240

aagacttta agggcaaccg gccatcacta agtttgctt   279

<210>   663
<211>   274
<212>   DNA
<213>   Zea mays

<400>   663

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224

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tcttaaggag tggatcgttt cttctcttgg gccacaggct gttgccaaac atatgattgc   180

tgtcagcact aatcttaagc ttgtgaagga gtttggaatt gacccaaaca atgcttttgc   240

cttttgggac tgggttggcg gccgttatag tgtt   274

<210>   664
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<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   664

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gtttggaatt ganccaaaca atgcttntgc ctnttgggac tgggttggcg gccgttatag   120

tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggcttgc caattgtcca   180

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naatataccn gtacntcttg gtgctgagtg tgtggaatgt ttc   283

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tgtttgcagt gctgttggcg ttctgccatt atctcttcag tatggctttc caattgtcca   180

gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt catttgagaa   240

aaatataccg tacttcttgg tttgctgag   269

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225

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gcagcagaat gtgcaaaagg ccggcaactg agattccttg caaatgttga tccagttgac   180

gttgcacgaa gcattaaaga tttggatcca gaaaccactc tggtggtggt tgtatcaaag   240

acattcacaa cagctgaaac aatgttaaat gctcgaactc ttaaggagtg gatcgtttc    299


<210>        667
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<212>        DNA
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<400>        667

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tttgcagtgc tgttggcgtt ctgccattat ctcttcagta tggctttcca attgtccaga   120

aatttttgga gggagcttcc agcattgaca accacttcta ctcatcttca tttgagaaaa   180

atatacctgt acttcttggt ttgctgagtg tgtggaatgt tcatttcttg gttatccagc   240

tagggcaata tgccatatct caggcacttg agaagt                              276


<210>        668
<211>        255
<212>        DNA
<213>        Zea mays

<400>        668

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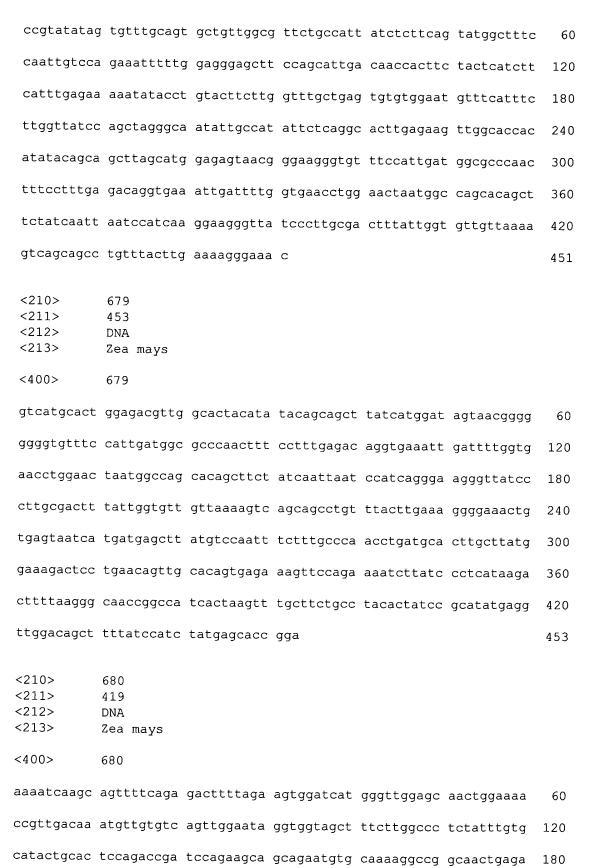
ttaaagataa aatcaagcag ttttcagaga cttttagaag tggatcatgg gttggagcaa   120

ctggaaaacc gttgacaaat gttgtgtcgg ttggaatagg tggtagcttt cttggccctc   180

tatttgtgca tactgcactc cagaccgatc cagaagcagc agaatgtgca aaaggccggc   240

aactgagatt ccttg                                                     255


<210>        669
<211>        233
<212>        DNA
<213>        Zea mays

<400>        669
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gggagcttcc agcattgaca accacttcta ctcatcttca tttgagagaa atatacctgt   120

acttcttggt ttgctgagtg tgtggaatgt ttcatttctt ggttatccag ctagggcaat   180

attgtcatat tctcaggcac ttgagaagtt ggcaccacat atacagcagc tta   233

<210>   670
<211>   191
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   670

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gagaaagttc cagaaaatct tatccctcat aagactttta agggcaaccg gccatcacta   120

agtttgcttc tgcctacact atccgcatat gaggtggaca gttttaancc tctatngggc   180

ncggtttnan t   191

<210>   671
<211>   115
<212>   DNA
<213>   Zea mays

<400>   671

gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat gcagaagcag   60

cagaatgtgc aaaaggccgg caactgagat tccttgcaaa tgttgatcca gttga   115

<210>   672
<211>   113
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   672

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tagtgtttgc agtgctgttg gcgntctgcc attatctctt cagtatggct ttc   113

<210>   673
<211>   122
<212>   DNA

227

<213>   Zea mays

<400>   673

tatcttatcc ctcataagac ttttaagggc aaccggccat cactaagttt gcttctgcct   60

acactatctg catacgaggt tacgacagct tttatccatc tatgagcacc ggattgcagt   120

tc   122

<210>   674
<211>   443
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   674

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tttatgaacg tgctgtgggg atttatgctt ctttggtaaa tatcaatgcc tatcatcagc   120

ctggtgttga ggctgggaaa aaggcancan gagaagtatt ggcccttcag aaaagggttc   180

tgactgtatt aaaggaggcc atctgcnaga accctactga gccattgact ctagatgaaa   240

ttgcagatcg ctgacattgc cctgaagata ttganatgat ctacanaata atccancaca   300

tggcttctaa cgacagatca cttatagcag aaggcatctg cngctttctt ngcagtgtta   360

aggtgtacct nggtgaaatg caattttgga ccnaantatg caggccggga tagattctgn   420

gtcnggancn aagtaacatt ntt   443

<210>   675
<211>   420
<212>   DNA
<213>   Zea mays

<400>   675

ctcttgggaa agaatttgat ctggatggca accgggtaaa tcaagggcta tgtgtagatg   60

gaaacaaagg aagcactgac cagcacgctt acattcagca gctgagagaa ggtgtacaca   120

acttctttgt tacttttatc gaggtcttgc gtgacaggcc tgctggtcat gattgggagc   180

ttgaacctgg agtcacatgt ggtgactatt tgtttgggat gttgcaggga acacgttctg   240

ctctttatgc aaatgaccgt gaatctatct ctgttactgt gcaagaggta actcctagag   300

ctgttggagc actggttgca ctttatgaac gtgctgtggg gctttatgct tctttggtaa   360

228

atatcaatgc ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt 420

<210>   676
<211>   349
<212>   DNA
<213>   Zea mays

<400>   676

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tcatttggga gttatcacag agccagtttg gcagtgctgt agttttggtt ttacctactc 180

tttgtagaag aaaagtgaag agtggatatt atggaacaaa atatatacct acggcagcac 240

gcagcatgat gaaacatatt taaaaaattt gggtgctcta ccacatgccc gtggaataaa 300

acggatgtaa actcagtgca aaaaaaaaaa aaaaaaaaaa aaacaaaaa   349

<210>   677
<211>   376
<212>   DNA
<213>   Zea mays

<223>   unsure at all n locations
<400>   677

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aagcagatcc gtctcccccg agccccgacc ggcgatcgct atcgacttgt agcggaagcc 120

atggcgtcgg cagcgctaat ctgcggcacg gagcagtgga aggccctcca ggcgcacgtc 180

ggcgcgattc agaagacgca cctgcgcgac ctgatggccg acgccgaccg atgcaaggca 240

atgacggctg agtatgaagg gatctttctg gattactcga gacagcaggc gactggtgaa 300

accctggaga agctccttaa atgggctgac gctgcgaagc tcaaggagaa ngatgagaag 360

atgtttaaag gtgaaa   376

<210>   678
<211>   451
<212>   DNA
<213>   Zea mays

<400>   678

229

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caattgtcca gaaatttttg gagggagctt ccagcattga caaccacttc tactcatctt  120

catttgagaa aaatatacct gtacttcttg gtttgctgag tgtgtggaat gtttcatttc  180

ttggttatcc agctagggca atattgccat attctcaggc acttgagaag ttggcaccac  240

atatacagca gcttagcatg gagagtaacg ggaagggtgt ttccattgat ggcgcccaac  300

tttcctttga gacaggtgaa attgattttg gtgaacctgg aactaatggc cagcacagct  360

tctatcaatt aatccatcaa ggaagggtta tcccttgcga ctttattggt gttgttaaaa  420

gtcagcagcc tgtttacttg aaaagggaaa c                                 451


<210>      679
<211>      453
<212>      DNA
<213>      Zea mays

<400>      679

gtcatgcact ggagacgttg gcactacata tacagcagct tatcatggat agtaacgggg   60

ggggtgtttc cattgatggc gcccaacttt cctttgagac aggtgaaatt gattttggtg  120

aacctggaac taatggccag cacagcttct atcaattaat ccatcaggga agggttatcc  180

cttgcgactt tattggtgtt gttaaaagtc agcagcctgt ttacttgaaa ggggaaactg  240

tgagtaatca tgatgagctt atgtccaatt tctttgccca acctgatgca cttgcttatg  300

gaaagactcc tgaacagttg cacagtgaga aagttccaga aaatcttatc cctcataaga  360

cttttaaggg caaccggcca tcactaagtt tgcttctgcc tacactatcc gcatatgagg  420

ttggacagct tttatccatc tatgagcacc gga                               453


<210>      680
<211>      419
<212>      DNA
<213>      Zea mays

<400>      680

aaaatcaagc agttttcaga gactttttaga agtggatcat gggttggagc aactggaaaa   60

ccgttgacaa atgttgtgtc agttggaata ggtggtagct ttcttggccc tctatttgtg  120

catactgcac tccagaccga tccagaagca gcagaatgtg caaaaggccg gcaactgaga  180
```

230

```
ttccttgcaa atgttgatcc agttgacgtt gcacgaagca ttaaagattt ggatccagaa   240

accactctgg tggtggttgt atcaaagaca ttcacaacag ctgaaacaat gttaaatgct   300

cgaactctta aggagtggat cgtttcttct cttgggccac aggctgttgc caaacatatg   360

attgctgtca gcactaatct taagcttgtg aaggagtttg gaattgaccc aaacaatgc    419
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<210>       681
<211>       426
<212>       DNA
<213>       Zea mays

<400>       681
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attctcaggc acttgagaag ttggcaccac atatacagca gcttagcatg gagagtaacg   120

ggaagggtgt ttccattgat ggcgcccaac tttcctttga gacaggtgaa attgattttg   180

gtgaacctgg aactaatggc cagcacagct tctatcaatt aatccatcag ggaagggtta   240

tcccttgcga ctttattggt gttgttaaaa gtcagcagcc tgtttacttg aaagggggaaa  300

ctgtgagtaa tcatgatgag cttatgtcca atttctttgc ccaacctgat gctcttgctt   360

atggaaagac tcctgaacag ttgcacagtg agaaagttcc agaaaatctt atccctcata   420

agactt                                                              426
```

```
<210>       682
<211>       323
<212>       DNA
<213>       Zea mays

<400>       682
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aacaggtcag tgcttcatgt agctctgagg gctccaagag atgcagtcat aaacagtgat   120

ggggtgaatg tggtccctga ggttcggagt gttaaagata aaatcaagca gttttcagag   180

acttttagaa gtggatcatg ggttggagca actggaaaac cgttgacaaa tgttgtgtcg   240

gttggaatag gtggtagctt tcttggccct ctatttgtgc atactgcact ccagaccgat   300

ccagaagcag cagaatgtgc aaa                                           323
```

```
<210>       683
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231

<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<400> 683

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ccaaaactga gtctcattac aaatgtngat cnanttgacg ttgcacnaan cattaaagat    60

ttggntccag aaaccacccn ggtggtggtt gtancaaaga cattcacaac agcggaaaca   120

atgttaaatg ctcgaactct taaggagtgg atcgtttctt ctcttgggcc acaggctgtt   180

gccaaacata tgattgctgt cagcactaat cttaagcttg tgaaggagtt tggaattgac   240

ccaaacaatg cttttgcctt ttgggactgg gttggcggcc gttatagtgt ttgcagtgct   300

gttggcgttc tgccattact cttcagtatg gctttccaat tgtccagaaa tttttggagg   360

gaacttccag ncattgacaa acaacttcna ntcnncctnc attttgagaa aaatatacct   420

gt                                                                  422
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<210> 684
<211> 122
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 684

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ggtgagtaac catgatgagc taatgtccaa ctattttgca cagtctgatg cccttgcata    60

tnnnaagaca gcagagcagc tgcnaaaggn caatgtttcc ccgcacctta ttccacacaa   120

ga                                                                  122
```

<210> 685
<211> 234
<212> DNA
<213> Glycine max

<400> 685

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tgataatcct ccactcaaga taacatacat ggacaacacg gatcctgctg gaattgatca    60

tcagattgca caacttgggc ctgagctagc ttcaacactt gtgattgtga tatcaaagag   120

tggaggtact cctgagacca gaaatggttt attggaagtg cagaaggcct ttcgtgaagc   180

aggcttggat tttcctaaac agggtgttgc tataacacaa gaaaattctt tgtt         234
```

232

```
<210>      686
<211>      205
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      686

ttcctatgtt tgatnggnnn ggaggtagaa cgtcagnnat gtctgcagtt ggcctgcttc    60

cagcagccct tccagggatt ganatnanag aaatgcttgc cggtgcatca ttgatggatg   120

angctaanag gagtactgtg nnaaggaata accctgcagc tctgctggct ttatgttggt   180

attgggctac agatggtgna ggatc                                         205


<210>      687
<211>      223
<212>      DNA
<213>      Glycine max

<400>      687

tgcagggcgt tgctataact caagaaaatt ctttgctgga taacactgca agaattgagg    60

gttggttagc tagatttcca atgtttgact gggtgggagg tagaacatca gagatgtctg   120

cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctggtg   180

cagcattaat ggatgaggcg aataggagta ctgtgataag gaa                     223


<210>      688
<211>      218
<212>      DNA
<213>      Glycine max

<400>      688

tgcagggcgt tgctataact caagaaaatt ctttgctgga taagactgca agaattgacg    60

gttggttagc tagatttcca atgtttgact gggtgggagg tagaacatca gagatgtctg   120

cagtgggcct gcttccagca gcccttcaga gcattgacat aagagaaatg cttgctggtg   180

cagcattaat ggatgaggcg aataggagta ctgtgata                           218


<210>      689
<211>      274
<212>      DNA
<213>      Glycine max
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<400>   689

gtgctacgtg atagacctcc tggtcatgat tgggaacttg aacctggtgt ccacatgcgg   60

tgactacttg tttggtatgc tacagggaac aagatcagct ctgtatgcca ataaccgaga   120

gtccatcaca gttactgtac aagaagtgac acctagaaca gttggtgctc ttattgcact   180

ctatgaacga gcagtaggaa tttatgcctc ccttgtcaac ataaatgctt atcatcaacc   240

aggtgtggaa gctggtaaaa aagcagcagg tgaa   274

<210>   690
<211>   257
<212>   DNA
<213>   Glycine max

<400>   690

aacaattgag ggaaggtgta cacaatttct ttgtaacatt cattgaggtg ctacgtgata   60

gacctcctgg tcatgattgc gaacttgaac ctggtgtcac atgcggtgac tacttgtttg   120

gtatgctaca gggaacaaga tcagctctgt atgccaataa ccgagagtcc atcacagtta   180

ctgtacaaga agtgacacct agaactgttg gtgctcttat tgcactctat gaacgagcag   240

taggaattta tgcctcc   257

<210>   691
<211>   251
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   691

gattgggaac ttgaacctgg tgtcacatgt ggtgactact tgtttggtat gctacaggga   60

acaaggtcgg ctttgtatgc caataaccga gagtccatca cagttactgt acaagaaggg   120

acaccaagaa cagttggtgc tcttattggg ctctatgaac gagcagtagg aatttatgcc   180

tcccctgtca acataaatgc ttatctnaac ctgcgtgtgg aagntgacga natnagcagc   240

agngaagtac t   251

<210>   692
<211>   245
<212>   DNA

234

<213>   Glycine max

<223>   unsure at all n locations
<400>   692

atcctgcanc tttgcnggct ttatgttggt attgggctac agatggtgta ngatcaaaag   60

atatggttat ccttccatat aaggacagct nganattatn tagtagatac ttgcaacagt 120

nggtcatgga atctctaggc aaggagtttg actgaatggt aatcgggtta atcaaggaat 180

tagtgtctat ggaaataaag gaagcacaga tcagcatgcc tacatccaac aactgaggga 240

aggtg   245

<210>   693
<211>   270
<212>   DNA
<213>   Glycine max

<400>   693

cagcatgcct acattcagca actgagggaa ggtgtgcaca attttttttgt gacattcatt   60

gaggtgctac gcgatagacc acctggtcat gattgggagc ttgaaccagg tgtcacatgt 120

ggtgactacc tgtttggtat gctacaggga acaaggtcag ccctgtatgc caataaccgt 180

gaatccatca ctgtcacagt gcaagaagtg acacccagat cagttggtgc ccttgtagcc 240

ctttatgaac gggccgttgg aatatatgct   270

<210>   694
<211>   259
<212>   DNA
<213>   Glycine max

<400>   694

ggagtttgac ttgaatggta atcgggttaa tcaaggaatt agtgtctatg gaaataaagg   60

aagcacagat cagcatgcct acattcaaca actgagggaa ggtgtgcaca attttttttgt 120

gacattcatt gaggtgctac gcgatagacc acctggtcat gattgggagc ttgaaccagg 180

tgtcacatgt ggtgactacc tgtttggtat gctacaggga acaaggtcag ccctgtatgc 240

caataaccgt gaatccatc   259

<210>   695
<211>   227

235

<212>   DNA
<213>   Glycine max

<400>   695

atagaagtac tgtgttaagg aataaccctg cagctctgct ggctttatgt tggtattggg   60

ctacagatgg tgtaggatcc aaggatatgg ttattcttcc gtacaaggac agcctgttat   120

tattcagtag atacttgcag cagctggtca tggaatctct aggcaaggag tttgacttgg   180

atggtaatcg ggttaatcaa ggaattagtg tctatggaaa caaagga   227

<210>   696
<211>   263
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<400>   696

ttcagggcat tgatattaga gaaatgcttg cnggtgcatc attgatggat gaggctaata   60

gaagtactgt gttaaggaat aaccctgcag ctntgctggc ttangnaagg tattgggcta   120

cagatggtgt aggaccaagg anatggttat tcttccgtac aaggacagcc tngtattatt   180

cagtagatac ntgcagcagc tggtcatgga atctctaggc aaggagtttg acttggatgg   240

taatcgggtt aatcaaggaa tag   263

<210>   697
<211>   266
<212>   DNA
<213>   Glycine max

<400>   697

gcgcgatcgc gaatcccgat gagagtcgca tggtgggaca ctattggctg agggacccta   60

agcgtgcgcc caactcgttc cttaaaacgc agattgagaa cactctcgac gctgtttgca   120

agttcgctaa cgacgtcgtt agtggtaaga ttaagcctcc ttcgtctccg gagggtcgat   180

ttactcaaat attgtctgtg ggaattggag gttctgctct tggaccacag tttgttgcag   240

aagcattggc acctgataat cctcca   266

<210>   698
<211>   398
<212>   DNA

<213>   Glycine max

<223>   unsure at all n locations
<400>   698

gaataaatgg ttaaggcaaa aaggattacg gtgataagga ataatcctgc acctttgctg   60

gctttatgtt ggtattgggc tacagatggt gtaggatcaa aagatatggt tatccttcca   120

tataaggaca gcttgttatt atttagtaga tacttgcaac agttggtcat ggaatctcta   180

agcaaggagt ttgacttgaa tggtaatcgg gttaatcaag gaattagtgt ctatggaaat   240

aaaggaagca cagatcagca tgcctacatt cagcaactga nggaaggtgt gcacaatttt   300

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caagtgtcac atgtggtgac tacctgtttg gtatgcta   398

<210>   699
<211>   362
<212>   DNA
<213>   Glycine max

<400>   699

gttggagaag ggcgcgatcg cgaatcccga tgagagtcgc atggtgggac actattggct   60

gagggaccct aagcgtgcgc ccaactcgtt ccttaaaacg cagattgaga acactctcga   120

cgctgtttgc aagttcgcta acgacgtcgt tagtggtaag attaagcctc cttcgtctcc   180

ggagggtcga tttactcaaa tattgtctgt gggaattgga agttctgctc ttggaccaca   240

gtttgttgca gaagcattgg cacctgataa tcctccactc aagataagat ttgtggacaa   300

cacggatcct gctggaattg atcatcagat tgcacaactt gggcctgagc tagcttcaac   360

ac   362